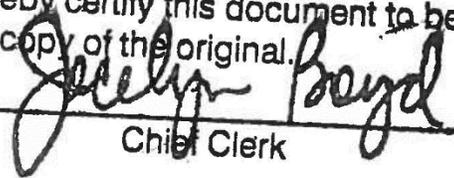


HEARING EXHIBIT NO. 14

(Merits Hearing of 4/3-4/2018)

In the matter of Docket No. 2017-292-WS:
Application of Carolina Water Service, Incorporated,
for Approval of an Increase in Its Rates
for Water and Sewer Services

I hereby certify this document to be a true copy of the original.



Chief Clerk

Date 8/30/18



Office of Regulatory Staff
SBBI: 2013 Valuation Handbook Excerpt
Carolina Water Service, Inc.
Docket No. 2017-292-WS

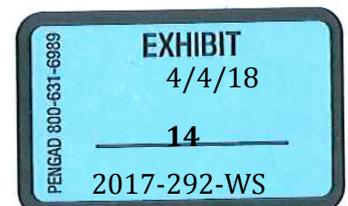
**DECILES ARE NOT REALLY DECILES AND “DECILE” PORTFOLIOS HAVE TO BE REBALANCED
FOUR TIMES A YEAR**

The term “decile” holds methodological appeal until one realizes that it is a questionable construct for two reasons. First, the deciles in SBBI do not really hold equal numbers of companies (as shown in Revised Exhibit DHC-13). Second, since it is time-series data, the Center for Research and Security Prices (“CRSP”) companies are constantly changing “deciles” due to company growth, merger, bankruptcy, or company shrinkage. The absence of data indicating a -100% change in stock value and a concomitant change in any dividends, as would occur from a corporate bankruptcy is called Survivorship Bias. Even if bankruptcy was not the cause for a stock’s being delisted and even if returns were higher than listed stocks’, the lack of assignment of a stock to a decile, even if were not a true decile, would distort the data on returns and the relationship of returns to capitalization.

The following quotation is from Ibbotson SBBI: 2013 Valuation Handbook, p.85. I have broken a single paragraph into two halves, the first relevant to the “decile” issue and the second to how dynamic and potentially distorting the capitalization-decile may be.

All companies on the NYSE [New York Stock Exchange] are ranked by the combined market capitalization of their eligible equity securities. The companies are then split into 10 equally populated groups, or deciles. Eligible companies traded on the NYSE, the NYSE Amex (AMEX), and Nasdaq National Market (NASDAQ) are then assigned to the appropriate deciles according to their capitalization in relation to the NYSE breakpoints.

The portfolios are rebalanced, using closing prices for the last trading day of March, June, September, and December. Securities added during the quarter are assigned to the appropriate portfolio when two consecutive month-end prices are available. If the final NYSE price of a security that becomes delisted is a month-end price, then that month’s return is included in the quarterly return of the security’s portfolio. When a month-end NYSE price is missing, the month-end value of the security is derived from merger terms, quotations on regional exchanges, and other sources.



Office of Regulatory Staff Blue Chip Financial Forecasts March 1, 2018

Carolina Water Service, Inc.

Docket No. 2017-292-WS

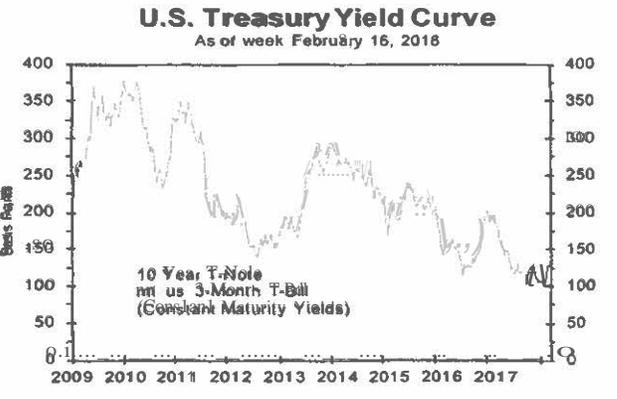
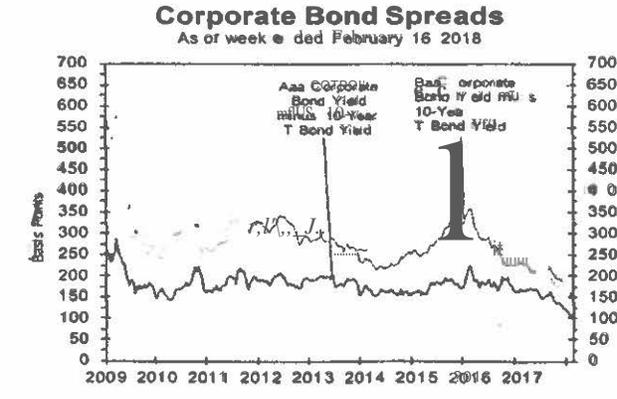
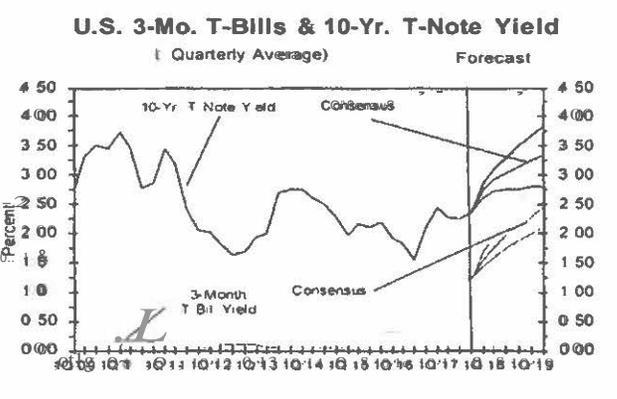
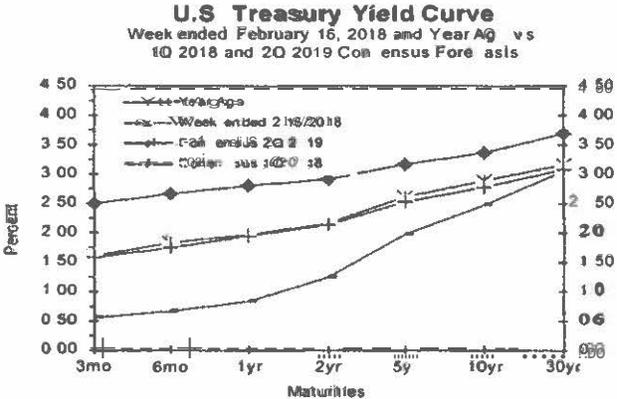
2 ■ BLUE CHIP FINANCIAL FORECASTS ■ MARCH 1, 2018

Consensus Forecasts Of U.S. Interest Rates And Key Assumptions¹

Interest Rates	History								Consensus Forecasts-Quarterly Avg.							
	Average For Week Ending				Average For Month				Latest Qtr		1Q	2Q	3Q	4Q	1Q	2Q
	Feb 16	Feb 9	Feb 2	Jan 26	Jan	Dec	Nov	4Q 2017	2018	2018	2018	2018	2019	2019		
Federal Funds Rate	1.42	1.42	1.42	1.41	1.41	1.29	1.16	1.20	1.5	1.7	1.9	2.2	2.3	2.5		
Prime Rate	4.50	4.50	4.50	4.50	4.50	4.38	4.25	4.29	4.6	4.8	5.0	5.2	5.4	5.6		
LIBOR 3-mo.	1.86	1.80	1.78	1.75	1.73	1.59	1.42	1.46	1.8	2.0	2.2	2.4	2.6	2.8		
Commercial Paper, 1-mo.	1.53	1.50	1.50	1.52	1.50	1.38	1.15	1.22	1.5	1.7	2.0	2.2	2.4	2.5		
Treasury bill 3-mo.	1.60	1.54	1.46	1.43	1.43	1.33	1.23	1.22	1.6	1.8	2.0	2.1	2.3	2.5		
Treasury bill 6-mo.	1.82	1.71	1.65	1.64	1.62	1.49	1.37	1.37	1.7	1.9	2.1	2.3	2.5	2.6		
Treasury bill, 1 yr	1.97	1.89	1.87	1.79	1.80	1.69	1.54	1.54	1.9	2.1	2.3	2.5	2.6	2.8		
Treasury note 2 yr.	2.15	2.10	2.14	2.09	2.02	1.83	1.68	1.68	2.1	2.3	2.5	2.6	2.8	2.9		
Treasury note, 5 yr	2.61	2.54	2.53	2.44	2.36	2.17	2.04	2.06	2.5	2.7	2.8	2.9	3.1	3.2		
Treasury note 10 yr.	2.87	2.82	2.75	2.65	2.56	2.40	2.36	2.37	2.8	2.9	3.0	3.1	3.3	3.3		
Treasury note, 30 yr.	3.14	3.10	2.99	2.91	2.86	2.77	2.81	2.82	3.1	3.2	3.4	3.5	3.6	3.7		
Corporate Aaa bond	3.97	3.89	3.79	3.73	3.68	3.63	3.70	3.69	3.8	4.1	4.3	4.4	4.6	4.7		
Corporate Baa bond	4.54	4.45	4.31	4.26	4.24	4.21	4.29	4.27	4.5	4.8	5.0	5.2	5.3	5.4		
State & Local bonds	3.58	3.57	3.53	3.45	3.42	3.46	3.41	3.41	3.6	3.8	3.9	4.1	4.2	4.3		
Home mortgage rate	4.38	4.32	4.22	4.15	4.03	3.95	3.92	3.92	4.3	4.5	4.6	4.7	4.9	5.0		

Key Assumptions	History								Consensus Forecasts-Quarterly					
	2016		2016		2016		2017		1Q	2Q	3Q	4Q	1Q	2Q
	2016	2016	2016	2016	2017	2017	2017	2017	2018	2018	2018	2018	2019	2019
Major Currency Index	93.3	89.6	90.3	93.7	94.4	93.0	88.3	88.9	86.5	86.5	86.5	86.4	86.4	86.3
Real GDP	0.6	2.2	2.8	1.8	1.2	3.1	3.2	2.6	2.7	3.0	2.9	2.7	2.5	2.4
GDP Price Index	0.3	2.4	1.4	2.0	2.0	1.0	2.1	2.4	2.1	2.0	2.2	2.1	2.2	2.2
Consumer Price Index	0.1	2.3	1.8	3.0	3.1	-0.3	2.0	3.7	3.0	2.0	2.3	2.1	2.3	2.3

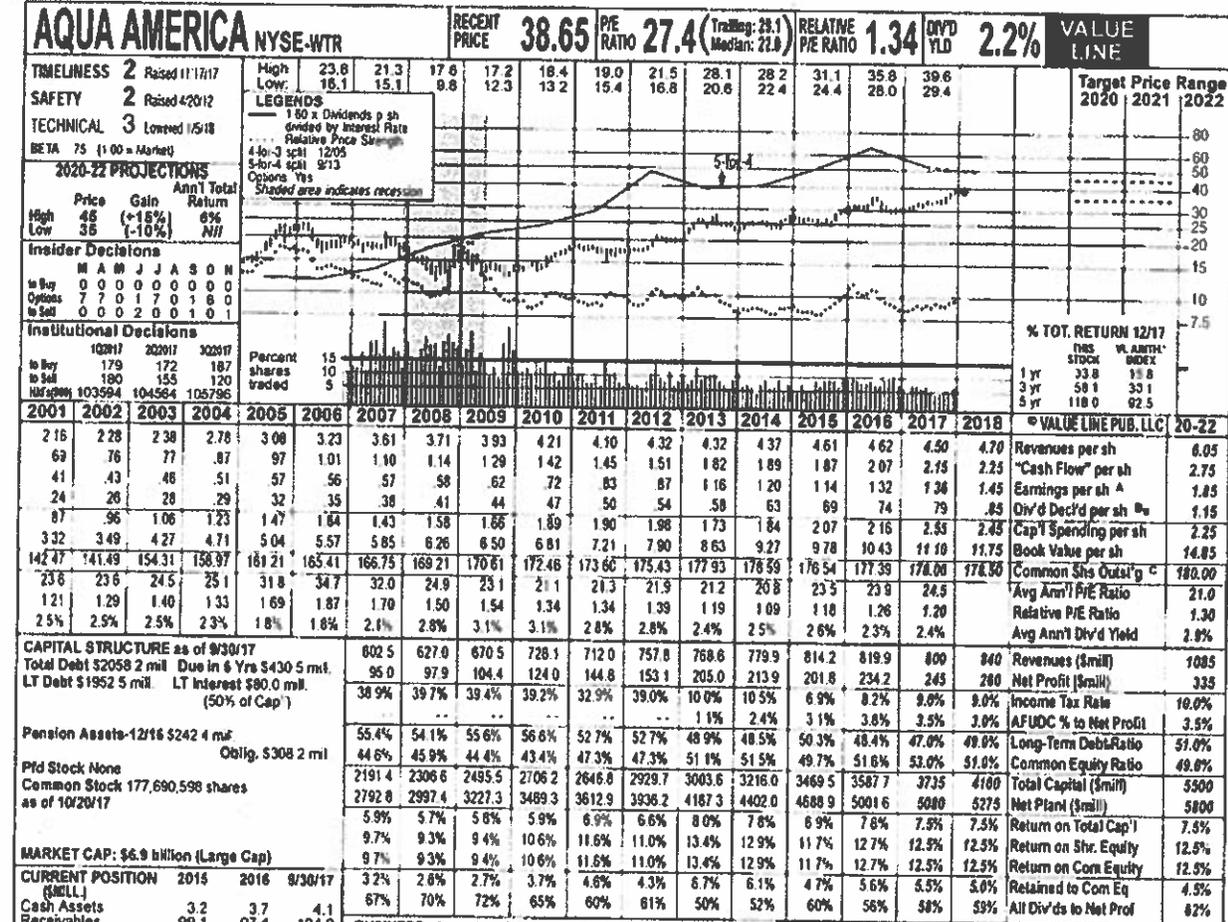
¹ Forecasts for interest rates and the Federal Reserve's Major Currency Index represent averages for the 12-month period. Forecasts for Real GDP, GDP Price Index and Consumer Price Index are seasonalized and adjusted annual rates of change. Individual bond members' forecasts are on pages 4 through 9. Historical data: Treasury rates from the Federal Reserve Board's H.15, AA+ to AAA and A to BBB corporate bond yields from Bank of America-Merrill Lynch and a 15+ years yield to maturity, State and local bond yields from Bank of America-Merrill Lynch, A-rated, variable rate municipal, Mortgage rates from Freddie Mac 30-year fixed, LIBOR quotes from Intercontinental Exchange. All interest rate data is sourced from the Bureau of Economic Analysis. Historical data for the Major Currency Index is from FRSR II. Historical data for Real GDP and GDP Chained Price Index are from the Bureau of Economic Analysis. Consumer Price Index is from the Department of Labor Bureau of Labor Statistics (BLS).



REVISED EXHIBIT DHC-1

Carolina Water Service, Inc.

Docket No. 2017-292-WS



2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% VALUE LINE PUB. LLC	20-22																		
2.16	2.28	2.38	2.78	3.06	3.23	3.61	3.71	3.93	4.21	4.10	4.32	4.32	4.37	4.61	4.62	4.50	4.70	Revenues per sh	6.05																		
69	76	77	87	97	101	110	114	129	142	145	151	162	189	187	207	215	225	"Cash Flow" per sh	2.73																		
41	.43	.48	.51	57	56	57	58	62	72	83	87	116	120	114	132	145	1.83	Earnings per sh A	1.83																		
24	26	28	29	32	35	38	41	44	47	50	54	58	63	69	74	79	83	Div'd Decl'd per sh	1.15																		
87	.96	1.06	1.23	1.47	1.64	1.43	1.58	1.66	1.89	1.90	1.98	1.73	1.84	2.07	2.16	2.35	2.45	Cap'l Spending per sh	2.25																		
332	3.49	4.27	4.71	5.04	5.57	5.85	6.26	6.50	6.81	7.21	7.90	8.63	9.27	9.78	10.43	11.10	11.75	Book Value per sh	14.85																		
142.47	141.49	154.31	158.97	181.21	165.41	166.75	169.21	170.61	172.46	173.66	175.43	177.93	178.59	176.54	177.39	178.00	178.30	Common Shs Outst'g C	180.00																		
236	236	245	251	31.8	34.7	32.0	24.9	23.1	21.1	21.3	21.9	21.2	20.8	23.5	23.9	24.5	24.5	Avg Ann'l P/E Ratio	21.0																		
1.21	1.29	1.40	1.33	1.69	1.87	1.70	1.50	1.54	1.34	1.34	1.39	1.19	1.09	1.10	1.26	1.20	1.20	Relative P/E Ratio	1.30																		
2.5%	2.5%	2.5%	2.3%	1.8%	1.8%	2.1%	2.8%	3.1%	3.1%	2.8%	2.8%	2.4%	2.5%	2.6%	2.3%	2.4%	2.4%	Avg Ann'l Div'd Yield	2.9%																		
CAPITAL STRUCTURE as of 9/30/17																			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Revenues (\$mill)	1085							
Total Debt \$2058.2 mill Due in 6 Yrs \$430.5 mil.																			95.0	97.9	104.4	124.0	144.8	153.1	205.0	213.9	201.8	234.2	800	840	Net Profit (\$mill)	335					
LT Debt \$1952.5 mill LT Interest \$80.0 mill (50% of Cap)																			38.9%	39.7%	39.4%	39.2%	32.9%	39.0%	10.0%	10.5%	6.9%	8.2%	9.6%	9.0%	Income Tax Rate	18.0%					
Pension Assets-1216 \$242.4 mil																			55.4%	54.1%	55.6%	56.6%	52.7%	52.7%	48.9%	48.5%	50.3%	48.4%	47.0%	49.8%	AFUDC % to Net Profit	3.5%					
Oblig. \$308.2 mil																			44.6%	45.9%	44.4%	43.4%	47.3%	47.3%	51.1%	51.5%	49.7%	51.6%	53.0%	51.6%	Long-Term Debt/Ratio	57.0%					
Pfd Stock None																			2191.4	2306.6	2495.5	2706.2	2646.8	2929.7	3003.6	3216.0	3469.5	3587.7	3735	4180	Common Equity Ratio	49.0%					
Common Stock 177,690,598 shares as of 10/20/17																			2792.8	2997.4	3227.3	3489.3	3612.9	3936.2	4167.3	4402.0	4688.9	5001.6	5080	5275	Total Capital (\$mill)	5500					
MARKET CAP: \$6.9 billion (Large Cap)																			5.9%	5.7%	5.6%	5.9%	6.9%	6.6%	8.0%	7.8%	6.9%	7.8%	7.5%	7.5%	Net Plant (\$mill)	5800					
CURRENT POSITION																			9.7%	9.3%	9.4%	10.6%	11.6%	11.0%	13.4%	12.9%	11.7%	12.7%	12.5%	12.5%	Return on Total Cap'l	7.5%					
CASH ASSETS (\$MILL)																			9.7%	9.3%	9.4%	10.6%	11.6%	11.0%	13.4%	12.9%	11.7%	12.7%	12.5%	12.5%	Return on Shr. Equity	12.5%					
Cash Assets																			3.2	3.7	4.1	3.7%	4.6%	4.3%	6.7%	6.1%	4.7%	5.6%	5.5%	5.0%	Retained to Com Eq	4.5%					
Receivables																			99.1	97.4	104.9	67%	70%	72%	65%	60%	60%	56%	58%	58%	All Div'ds to Net Prof	82%					
Inventory (AvgCat)																			12.4	13.0	16.6	BUSINESS: Aqua America, Inc. is the holding company for water and wastewater utilities that serve approximately three million residents in Pennsylvania, Ohio, North Carolina, Illinois, Texas, New Jersey, Florida, Indiana, and five other states. Has 1,551 employees. Acquired AquaSource, 7/13; North Maine Utilities, 7/15; and others. Water supply revenues '2016: residential, 59%; commercial, 16%; industrial, wastewater & other 25% Off & dir own less than 1% of the common stock. Vanguard Group 8.9% Blackrock Inc. 8.1% State Street Capital, 6.0% (3/17 Proxy) President & Chief Executive Officer Christopher Franklin Incorporated Pennsylvania Address 782 West Lancaster Avenue Bryn Mawr, Pennsylvania 19010. Tel. 610-525-1400 Internet www.aquamerica.com															
Other																			13.7	14.6	12.7	Our earnings estimates for Aqua America remain unchanged. But we have lowered our revenue forecast for both last year's fourth quarter and 2018 as water sales have been declining. On the positive side, the water utility's operating expenses have been decreasing at a higher rate thanks to lower power and chemical costs. Indeed, we think Aqua's 2017 share net came in at \$1.36, versus 2016's tough \$1.32 comparison. Rate relief granted by several states over the past 12 months will be in effect all of this year. This, plus expected new hikes in Virginia and Indiana, should enable Aqua's share earning to climb a healthy 7% to \$1.45. Acquisitions are being made at a modest pace. Due to the fragmentation in the market (there are over 100,000 separate water districts in the U.S.), large-cap water utilities such as Aqua are continuously buying small water entities. Also, most of these authorities do not have the funds required to replace and upgrade their aging network of pipes and waste systems. Not only do the bigger water entities have the funds available for the needed capital outlays, they are also able to realize significant cost saving because the industry is rife with redundancies. The company's acquisitions made through September of last year combined with organic growth, led to only a 0.8% increase in the customer base. Management has targeted annual growth to be approximately 1.5%-2.0%, so we expect the pace to possible accelerate here. Aqua has a healthy balance sheet. Of the nine members in this group, only two merit an "A" Financial Strength rating. This leaves the company with the capacity to borrow to buy more water assets. In addition, Aqua's policy of hardly issuing any new equity is a real positive. With the stock near its all-time high, a new equity offering would probably be well received, as institutional demand for large-cap water utilities stock remains strong. These shares are timely. Also, even though WTR's long term total return potential isn't great, it is more attractive than most other mid and large-cap stocks in this group. So, investors that must own a water utility equity may find WTR of interest.															
Current Assets																			128.4	128.7	138.3	James A. Flood January 12, 2018															
Accs Payable																			58.5	59.9	63.4																
Debt Due																			52.3	157.2	105.7																
Other																			84.4	84.4	83.9																
Current Liab																			193.2	301.5	253.0																

(A) Divided eqs. Excl. nonrec. gains '01, 24; '02, 44; '03, 34; '12, 184. Excl. gain from disc operations. '12, 74; '13, 94; '14, 114. May not sum due to rounding. Next earnings report due mid-February. (B) Dividends historically paid in early March, June, Sept. & Dec. Div'd reinvestment plan available (5% discount). (C) In millions, adjusted for stock splits.

Company's Financial Strength: A
 Stock's Price Stability: 95
 Price Growth Persistence: 65
 Earnings Predictability: 90

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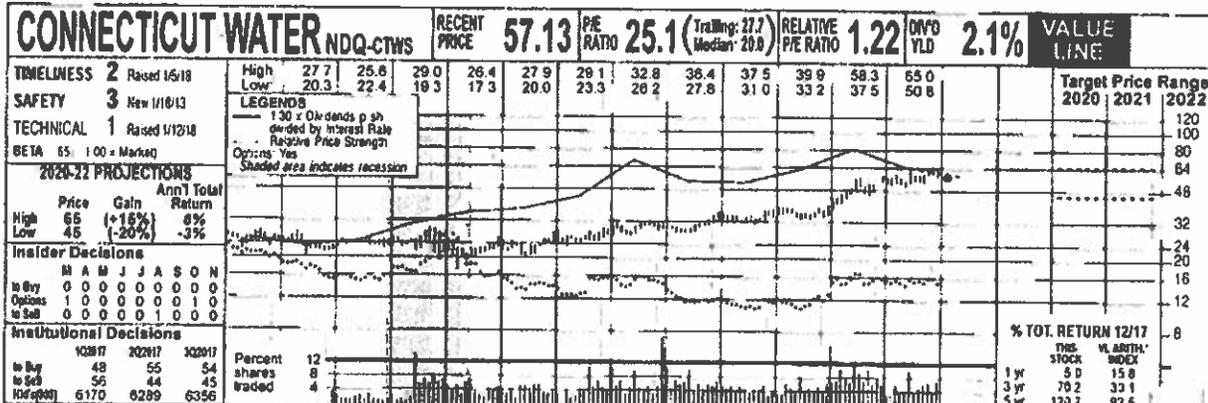
EXHIBIT DHC-3 CAROLINA WATER SERVICE, INC. PUBLIC UTILITY Docket No. 2017-292-WS

CALIFORNIA WATER NYSE-CWT				RECENT PRICE	PIE RATIO	Trailing: 31.5 Median: 20.0	RELATIVE PIE RATIO	DIVD YLD	VALUE LINE									
TIMELINESS	2	Raised 9/1/17	High	44.70	30.0	31.5	1.46	1.6%	Target Price Range									
SAFETY	3	Lowered 7/27/07	Low	22.9	22.7	23.3	24.1	19.8	19.4	19.3	23.4	26.4	26.0	36.8	46.2	2020	2021	2022
TECHNICAL	2	Raised 12/22/17	LEGENDS 1 33 a Dividends p sh 2 100% Dividend by Interest Rate 3 Relative Price Strength 4 For-1 split 5/11 5 Shaded area indicates recession														64	
BEA	80	(1100 + Market)	2020-22 PROJECTIONS														48	
Ann'l Total			Price														40	
Gain			Ann'l Total														32	
Return			High														24	
5%			Low														20	
-4%			In Insider Decisions														16	
M A M J J A S O N			M A M J J A S O N														12	
Buy			Buy														8	
Options			Options														6	
Sell			Sell															
Institutional Decisions			Institutional Decisions															
Q2'17			Q2'17															
Q3'17			Q3'17															
Q4'17			Q4'17															
Shares			Shares															
Traded			Traded															
2001			2001															
2002			2002															
2003			2003															
2004			2004															
2005			2005															
2006			2006															
2007			2007															
2008			2008															
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2012			2012															
2013			2013															
2014			2014															
2015			2015															
2016			2016															
2017			2017															
2018			2018															
20-22			20-22															
Revenues per sh			Revenues per sh														15.00	
Cash Flow per sh			Cash Flow per sh														3.25	
Earnings per sh			Earnings per sh														1.85	
Div'd Decl'd per sh			Div'd Decl'd per sh														1.02	
Cap'l Spending per sh			Cap'l Spending per sh														3.83	
Book Value per sh			Book Value per sh														16.50	
Common Shs Outst'g			Common Shs Outst'g														30.00	
Avg Ann'l PIE Ratio			Avg Ann'l PIE Ratio														23.0	
Relative PIE Ratio			Relative PIE Ratio														1.45	
Avg Ann'l Div'd Yield			Avg Ann'l Div'd Yield														2.4%	
Revenues (\$mil)			Revenues (\$mil)														750	
Net Profit (\$mil)			Net Profit (\$mil)														92.0	
Income Tax Rate			Income Tax Rate														21.0%	
AFUDC % to Net Profit			AFUDC % to Net Profit														8.0%	
Long-Term Debt Ratio			Long-Term Debt Ratio														42.0%	
Common Equity Ratio			Common Equity Ratio														58.0%	
Total Capital (\$mil)			Total Capital (\$mil)														1425	
Net Plant (\$mil)			Net Plant (\$mil)														2090	
Return on Total Cap'l			Return on Total Cap'l														7.3%	
Return on Shr. Equity			Return on Shr. Equity														11.0%	
Return on Core Equity			Return on Core Equity														11.9%	
Retained to Com Eq			Retained to Com Eq														3.0%	
All Div'ds to Net Prof			All Div'ds to Net Prof														55%	
CAPITAL STRUCTURE as of 9/30/17			CAPITAL STRUCTURE as of 9/30/17															
Total Debt \$750.6 mil			Total Debt \$750.6 mil															
Due in 6 Yrs \$174.0 mil			Due in 6 Yrs \$174.0 mil															
LT Debt \$519.7 mil			LT Debt \$519.7 mil															
LT Interest \$35.0 mil			LT Interest \$35.0 mil															
(44% of Cap'l)			(44% of Cap'l)															
Pension Assets-12/16 \$376.5 mil			Pension Assets-12/16 \$376.5 mil															
Oblig. \$564.8 mil			Oblig. \$564.8 mil															
Pfd Stock None			Pfd Stock None															
Common Stock 48 : 15,000 shs			Common Stock 48 : 15,000 shs															
MARKET CAP: \$2.1 billion (Mid Cap)			MARKET CAP: \$2.1 billion (Mid Cap)															
CURRENT POSITION (MILL)			CURRENT POSITION (MILL)															
Cash Assets			Cash Assets															
Other			Other															
Current Assets			Current Assets															
Accts Payable			Accts Payable															
Debt Due			Debt Due															
Other			Other															
Current Liab			Current Liab															
ANNUAL RATES Past			ANNUAL RATES Past															
of change (per sh)			of change (per sh)															
Revenues			Revenues															
Cash Flow			Cash Flow															
Earnings			Earnings															
Dividends			Dividends															
Book Value			Book Value															
Cal-endar			Cal-endar															
QUARTERLY REVENUES (\$ mil)			QUARTERLY REVENUES (\$ mil)															
2014			2014															
2015			2015															
2016			2016															
2017			2017															
2018			2018															
Cal-endar			Cal-endar															
EARNINGS PER SHARE			EARNINGS PER SHARE															
2014			2014															
2015			2015															
2016			2016															
2017			2017															
2018			2018															
Cal-endar			Cal-endar															
QUARTERLY DIVIDENDS PAID			QUARTERLY DIVIDENDS PAID															
2014			2014															
2015			2015															
2016			2016															
2017			2017															
2018			2018															
BUSINESS: California Water Service Group provides regulated and nonregulated water service to 482,400 customers in 100 communities in the state of California. Accounts for over 94% of total customers. Also operates in Washington, New Mexico, and Hawaii. Main service areas San Francisco Bay area, Sacramento Valley, Salinas Valley, San Joaquin Valley & parts of Los Angeles. Acquired Rio Grande Corp West Hawaii Utilities (9/08) Revenue breakdown, '16 residential, 72% business 20% industrial 4% public authorities, 3% other 1% Off and dir own 1% of common stock (4/17 proxy). Has 1,163 employees Pres and CEO Martin A. Kopolnick Inc: DE, Addr 1720 North First St San Jose CA 95112-4598 Tel: 408-367-8200. Internet: www.calwatergroup.com																		
California Water Service Group stock is trading around recently established all-time highs. The regulated water utility wrapped up 2017 by surging through the \$45-per-share price threshold on more than one occasion, with shares rising 33% on the year. Since our previous review, the equity is up more than 10% in value. Indeed, the investment community has handsomely rewarded the company for delivering consistent top and bottom-line growth, quarter to quarter. However, fourth-quarter share net may slip by two cents. For 2018, our ranking system suggests another strong performance may be in store, as CWT shares are poised to outpace the year-ahead broader market averages (Timeliness: 2). We think the positives will continue to outweigh the negatives here. California Water Service is enjoying the fruits of recent rate increases by the California regulatory authority. In fact, the decision has added more than \$30 million in incremental revenues so far. In addition, favorable changes to the corporate tax rate should help lift profits this year. To address the latter, the company's operating expenses are still on the rise, despite some progress in the second quarter. Water costs (only investment upgrades can be recouped) from greater customer usage, as well as periodic increases in wholesale supplier rates, are pushing expenses higher. Overall, we are adding \$10 million and \$0.10 to our 2018 revenue and earnings estimates, to \$685 million and \$1.55 a share, respectively. Aggressive infrastructure spending remains on tap through next decade. As previously noted, California has close to \$500 million left on its investment budget, and has earmarked the funds for upgrades to its aging infrastructure and water systems. On top of that, these improvements are likely to be accompanied by bolt-on acquisitions. This issue is best suited for short-term accounts. On the other hand, CWT shares have been on a multiyear price ascent and, as a result, total return potential 3 to 5 years out is unappealing. Thus we think investors with a longer term holding period can find more attractive options elsewhere, at this time. Nicholas P. Patrikis January 12, 2018																		
(A) Basic EPS. Excl nonrecurring gain (loss). '01, '02, '04, '11, '14. Next earnings report due late February.			May, Aug, and Nov. = Div'd reinvestment plan available.														(D) in millions, adjusted for splits	
(B) Dividends historically paid in late Feb.			(C) Incl intangible assets. In '16 \$219 mil.														(E) Excludes non-reg rev	
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			Stock's Price Stability														80	
			Price Growth Persistence														35	
			Earnings Predictability														65	
			To subscribe call 1-800-VALU LINE															

Value Line

Carolina Water Service, Inc.

Docket No. 2017-292-WS



2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	20-22
5.91	5.77	5.91	6.04	5.81	5.68	7.05	7.24	6.93	7.65	7.93	9.47	8.29	8.45	8.58	8.77	8.75	9.55	Revenues per sh 12.80
1.78	1.78	1.89	1.91	1.62	1.52	1.90	1.95	1.93	2.04	2.11	2.64	2.63	2.97	3.18	3.31	3.35	3.55	Cash Flow per sh 4.10
1.13	1.12	1.15	1.16	.88	.81	1.05	1.11	1.19	1.13	1.13	1.53	1.86	1.92	2.04	2.08	2.40	2.40	Earnings per sh A 2.90
.80	.81	.83	.84	.85	.86	.87	.88	.90	.92	.94	.96	.98	1.01	1.05	1.12	1.18	1.24	Div'd Dec'd per sh B 1.46
1.86	1.96	1.49	1.58	1.96	1.96	2.24	2.44	3.28	3.06	2.61	2.79	3.02	4.11	4.28	5.93	4.50	4.35	Cap'l Spending per sh 3.35
9.25	10.06	10.46	10.94	11.52	11.60	11.95	12.23	12.67	13.05	13.50	20.95	17.92	18.83	20.01	20.98	24.40	24.50	Book Value per sh D 26.80
7.65	7.94	7.97	8.04	8.17	8.27	8.58	8.46	8.57	8.68	8.76	8.65	11.04	11.12	11.19	11.25	12.70	12.25	Common Sec Outst'g C 12.50
21.5	24.3	23.3	22.9	26.6	29.0	22.2	18.4	20.7	23.0	19.4	17.6	17.6	17.5	17.6	23.3	23.7	23.7	Avg Ann'l P/E Ratio 18.0
1.10	1.33	1.34	1.21	1.52	1.57	1.22	1.34	1.23	1.32	1.44	1.23	1.03	.92	.89	1.22	1.25	1.25	Relative P/E Ratio 1.20
3.3%	3.0%	3.0%	3.1%	3.4%	3.6%	3.6%	3.6%	4.1%	3.9%	3.6%	3.2%	3.2%	3.0%	2.9%	2.3%	2.1%	2.1%	Avg Ann'l Div'd Yield 2.7%

CAPITAL STRUCTURE as of 9/30/17
 Total Debt \$263.2 mil Due in 6 Yrs \$19.8 mil
 LT Debt \$255.2 mil. LT Interest \$8.0 mil. (47% of Cap'l)

Leases, Uncapitalized: Annual rentals \$ 3 mil
 Pension Assets-12/16 \$82.7 mil
 Oblig. \$79.3 mil

Pfd Stock \$0.8 mil Pfd Divd NMF

Common Stock 12,068,299 shs

MARKET CAP: \$700 million (Small Cap)

2016	2016	9/30/17
32.4%	27.2%	19.5%
47.8%	46.9%	50.6%
51.8%	52.7%	49.1%
193.2	196.5	221.3
284.3	302.3	325.2
5.5%	5.8%	5.5%
8.7%	9.0%	9.3%
8.7%	9.1%	9.4%
1.6%	1.9%	2.3%
82%	79%	76%

BUSINESS: Connecticut Water Service, Inc. is a non-operating holding company, whose income is derived from earnings of its wholly-owned subsidiary companies (regulated water utilities). In 2016, 95% of net income was derived from these activities. Provides water services to 440,000 people in 79 municipalities throughout Connecticut and Maine. Acquired The Maine Water Company, January, 2012; Biddeford and Saco Water, December 2012; Heritage Village, February, 2017. Inc. Conn. Has 266 employees. Chairman/President/Chief Executive Officer Eric W. Thornburg. Officers and directors own 2.5% of the common stock; BlackRock Inc. 7.2% (4/17 proxy). Address: 93 West Main Street, Clinton, CT 06413 Telephone: (860) 669-8636 internet: www.ctwater.com

Connecticut Water Service reported third-quarter financial results in line with our expectations. Revenues of \$31.8 million rose 8%, year over year, while earnings of \$0.90 per share logged a similar advance. There were several noteworthy highlights during the September period. These consist of the completion and inclusion of the Heritage Village Water and Avon Water acquisitions, which added about 9,500 customers and \$2.4 million to the top line. Moreover, Connecticut finalized a \$30 million water treatment facility upgrade.

The company has received approval to raise its rates. As noted in our previous review, Connecticut Water's subsidiary, The Maine Water Company, filed for a rate hike to recoup about \$5 million in past water system upgrades and associated operating costs. The rate increase (effective as of December 1st) will impact roughly 16,500 customers and lift its annual revenue haul by more than \$1.5 million. Additional hikes are expected down the road. No doubt, infrastructure upgrades are apt to persist over the pull to next decade, as the push to revamp outdated water pipes and mains continues to be the primary focus for most water utilities. Improvements in water treatment plants are also in the cards. Over the course of this year, we believe CTWS will match its 2017 spending budget, at around \$66 million. As always, to help fund (or recoup) these investments, we expect periodic rate filings to come across the public utilities commission's desk.

We have modestly raised our 2018 top and bottom-line estimates. Due to the abovementioned rate approval and wider customer base, we are adding \$2 million and \$0.05 to this year's revenue and earnings forecasts, to \$117 million and \$2.40 a share, respectively. Meanwhile, our financial projections for 2017 are unchanged. This issue ought to appeal primarily to those with a short-term strategy (Timeliness: 2). On the other hand, shares of CTWS are already trading well within our 3- to 5-year Target Price Range. Therefore, we recommend longer term accounts wait on the sidelines for a more attractive entry point.

Nicholas P. Patrikis January 12, 2018

Cal-endar	Q1	Q2	Q3	Q4	Full Year
2014	20.3	25.4	27.6	20.7	94.0
2015	20.0	26.6	28.4	21.0	96.0
2016	21.6	26.1	29.5	21.5	98.7
2017	22.5	27.9	31.8	23.8	108
2018	25.5	30.5	35.0	26.0	117

Cal-endar	Q1	Q2	Q3	Q4	Full Year
2014	.27	.67	.76	.22	1.92
2015	.28	.77	.79	.20	2.04
2016	.28	.89	.84	.07	2.08
2017	.36	.73	.90	.21	2.20
2018	.37	.80	.93	.30	2.40

Cal-endar	Q1	Q2	Q3	Q4	Full Year
2014	2475	2475	2575	2575	1.01
2015	2575	2575	2675	2675	1.05
2016	2675	2825	2825	2825	1.12
2017	2825	2975	2975	2975	1.18

(A) Diluted earnings. Next earnings report due late February.
 (B) Dividends historically paid in mid-March, June, September, and December. = Div'd reinvestment plan available
 (C) In millions
 (D) Includes intangibles. In 2016, \$30.4 million/\$2.70 = shares

Company's Financial Strength B+
 Stock's Price Stability 90
 Price Growth Persistence 80
 Earnings Predictability 85

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CONNECTICUT WATER SERVICE, INC. 05/20/2018 12:29:29 PM NYSE/AMEX/OTC
 04/15/18 04:59:07

RECEIVED IN EARLY PROCEEDINGS SHOWS MAJOR AWARD SHOWS: 05 PMS CSDBS&E 120127-1292905VSP a 05/05/17 05:05:07

GLOBAL WATER RES. NDQ-GWRS		RECENT PRICE	9.15	TRAILING P/E RATIO	NMF	RELATIVE P/E RATIO	NMF	DIV'D YLD	3.1%	VALUE LINE	
RANKS								9.29 6.23	10.00 7.90	High Low	
PERFORMANCE	2 Above Average										
Technical	1 Highest										
SAFETY	- Short History										
BETA NMF	(1.00 = Market)										
Financial Strength	NMF										
Price Stability	NMF										
Price Growth Persistence	NMF										
Earnings Predictability	NMF										
C VALUE LINE PUBLISHING LLC		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018/2019
REVENUES PER SH		--	--	--	--	--	--	--	1.52	--	
"CASH FLOW" PER SH		--	--	--	--	--	--	--	.18		
EARNINGS PER SH		--	--	--	--	--	--	--	d.15	NA	NANA
DIV'DS DECL'D PER SH		--	--	--	--	--	--	--	.17		
CAP'L SPENDING PER SH		--	--	--	--	--	--	--	.44		
BOOK VALUE PER SH		--	--	--	--	--	--	--	.78		
COMMON SHS OUTST'G (\$MILL)		--	--	--	--	--	--	--	19.58		
AVG ANN'L P/E RATIO		--	--	--	--	--	--	--	--	NA	NANA
RELATIVE P/E RATIO		--	--	--	--	--	--	--	--	--	
AVG ANN'L DIV'D YIELD		--	--	--	--	--	--	--	2.2%		
REVENUES (\$MILL)		--	--	--	--	--	--	32.0	28.8		<i>Bold figures are consensus earnings estimates and, using the recent prices, P/E ratios.</i>
OPERATING MARGIN		--	--	--	--	--	--	75.1%	38.8%		
DEPRECIATION (\$MILL)		--	--	--	--	--	--	8.2	6.3		
NET PROFIT (\$MILL)		--	--	--	--	--	--	21.4	d2.9		
INCOME TAX RATE		--	--	--	--	--	--	49.1%	--		
NET PROFIT MARGIN		--	--	--	--	--	--	66.9%	NMF		
WORKING CAP'L (\$MILL)		--	--	--	--	--	--	8.0	13.8		
LONG-TERM DEBT (\$MILL)		--	--	--	--	--	--	104.7	114.3		
SHR. EQUITY (\$MILL)		--	--	--	--	--	--	20.1	15.2		
RETURN ON TOTAL CAP'L		--	--	--	--	--	--	20.5%	2.4%		
RETURN ON SHR. EQUITY		--	--	--	--	--	--	108.5%	NMF		
RETAINED TO COM EQ		--	--	--	--	--	--	108.5%	NMF		
ALL DIV'DS TO NET PROF		--	--	--	--	--	--	--	NMF		

Note: No analyst estimates available.

ANNUAL RATES					ASSETS (\$mill)		
of change (per share)	\$ Yrs.	1 Yr.			2015	2016	9/30/17
Sales	--	--		Cash Assets	11.5	20.5	7.8
"Cash Flow"	--	--		Receivables	1.1	1.5	1.6
Earnings	--	--		Inventory	.0	0.0	0.0
Dividends	--	--		Other	6.1	2.7	3.3
Book Value	--	--		Current Assets	18.7	24.7	12.7
Fiscal Year	QUARTERLY SALES (\$mill.)	1Q	2Q	3Q	4Q	Full Year	Property Plant & Equip at cost
12/31/15	7.6	9.1	8.2	7.1	32.0	32.0	258.2
12/31/16	6.8	7.6	8.2	7.2	29.8	29.8	64.0
12/31/17	6.8	8.1	8.5				72.9
12/31/18							194.2
							200.5
							25.1
							13.6
							13.7
							238.0
							238.8
							238.2
Fiscal Year	EARNINGS PER SHARE	1Q	2Q	3Q	4Q	Full Year	LIABILITIES (\$mill.)
12/31/14	--	--	--	--	--	--	Accs Payable
12/31/15	--	--	--	--	--	--	1.3
12/31/16	d.02	d.19	.06	--	d.15		1.8
12/31/17	--	.02	.06				2.0
12/31/18							0.0
							7.4
							9.1
							10.3
							10.7
							10.9
							10.5
Cal-ender	QUARTERLY DIVIDENDS PAID	1Q	2Q	3Q	4Q	Full Year	LONG-TERM DEBT AND EQUITY as of 9/30/17
2015	--	--	--	--	--	--	Total Debt \$114.4 mil
2016	--	.04	.068	.067	.17		LT Debt \$114.4 mil.
2017	.067	.068	.069	.07	.27		Including Cap. Leases NA
2018							(90% of Cap'l; Lessee, Uncapitalized Annual rentals NA
							Pension Liability None in '16 vs. None in '15
							Pfd Stock None
							Pfd Div'd Paid None
							Common Stock 19,831,000 shares
							(10% of Cap'l)

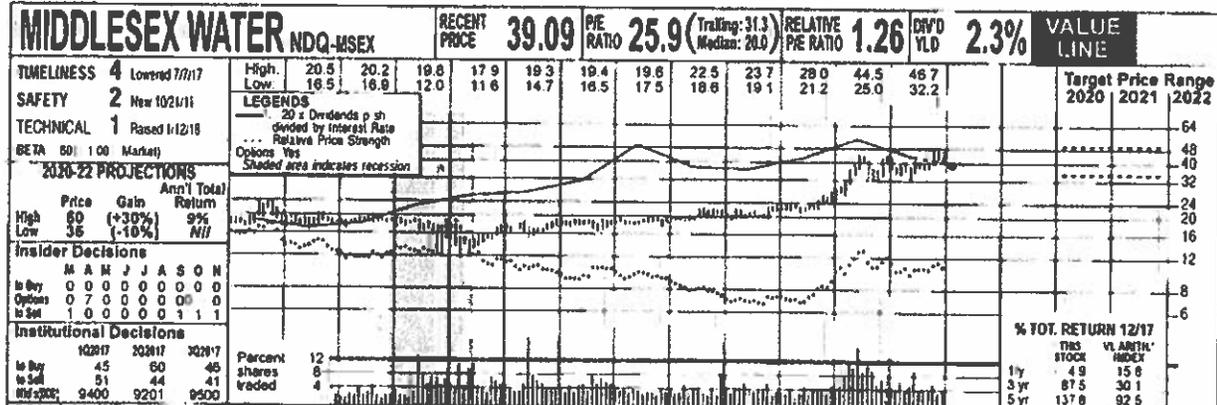
INDUSTRY: Water Utility				
<p>BUSINESS: Global Water Resources, Inc. is a water resource management company that owns, operates, and manages water, wastewater, and recycled water utilities in strategically located communities, principally in metropolitan Phoenix, Arizona. It seeks to deploy its integrated approach which it refers to as "Total Water Management," a term the company uses to mean managing the entire water cycle by owning and operating the water, wastewater, and recycled water utilities within the same geographic areas in order to both conserve water and maximize its total economic and social value. Global Water uses Total Water Management to promote sustainable communities in areas where it expects growth to outpace the existing potable water supply. The company currently owns eight water and wastewater utilities in strategically targeted communities in metropolitan Phoenix and serves more than 50,000 people in approximately 19,000 homes within its certificated service areas. Has 43 employees. C.E.O. & President: Ron L. Fleming. Address: 21410 N. 19th Avenue #220, Phoenix, AZ 85027. Tel.: (480) 360-7775. Internet: www.gwresources.com. J.L.</p>				
January 12, 2018				
TOTAL SHAREHOLDER RETURN				
<i>Dividends plus appreciation as of 12/31/2017</i>				
3 Mos.	6 Mos.	1 Yr.	3 Yrs.	5 Yrs.
-0.13%	-4.28%	5.74%	--	--

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Carolina Water Service, Inc.

Docket No. 2017-292-WS



2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
5.87	5.98	6.12	6.25	6.44	6.16	6.50	6.79	6.75	6.60	6.50	6.98	7.19	7.26	7.77	8.16	8.10	8.55	8.55	8.40	8.40	8.40
1.18	1.20	1.15	1.28	1.33	1.33	1.49	1.53	1.40	1.55	1.46	1.56	1.72	1.84	1.97	2.17	2.25	2.55	2.55	2.17	2.17	2.17
66	73	61	73	71	82	87	69	72	96	84	90	103	113	122	138	140	1.85	1.85	1.38	1.38	1.38
62	63	65	66	67	68	69	70	71	72	73	74	75	76	78	81	86	.91	.91	.91	.91	.91
1.25	1.59	1.87	2.54	2.18	2.31	1.66	2.12	1.49	1.90	1.50	1.36	1.28	1.40	1.59	2.91	1.80	1.30	1.30	1.30	1.30	1.30
7.11	7.39	7.60	8.02	8.26	9.52	10.05	10.03	10.33	11.13	11.27	11.48	11.82	12.24	12.74	13.40	13.95	14.65	14.65	13.40	13.40	13.40
10.17	10.36	10.48	11.36	11.58	13.17	13.25	13.40	13.52	15.57	15.70	15.62	15.96	16.12	16.23	16.30	16.50	17.75	17.75	16.30	16.30	16.30
24.6	23.5	30.0	26.4	27.4	22.7	21.6	19.8	21.0	17.8	21.7	20.8	19.7	18.5	19.1	25.6	28.0	Avg Ann'l P/E Ratio	21.0	21.0	21.0	21.0
1.26	1.28	1.71	1.39	1.46	1.23	1.15	1.19	1.40	1.13	1.36	1.32	1.11	97	98	1.35	1.37	Relative P/E Ratio	1.30	1.30	1.30	1.30
3.8%	3.7%	3.5%	3.4%	3.5%	3.7%	3.7%	4.0%	4.7%	4.2%	4.0%	4.0%	3.7%	3.7%	3.3%	2.3%	2.2%	Avg Ann'l Div'd Yield	2.5%	2.5%	2.5%	2.5%

CAPITAL STRUCTURE as of 9/30/17
Total Debt \$166.6 mil Due In 5 Yrs \$32.1 mil
LT Debt \$135.6 mil LT Interest \$6.0 mil
(Total interest coverage 10.8x)
(38% of Cap'l)

Pension Assets 12/16 \$59.4 mil
Oblig. \$78.6 mil
Pfd Stock \$2.4 mil Pfd Div'd: \$ 1 mil

Common Stock 16,346,036 shs as of 10/31/17

MARKET CAP: \$650 million (Small Cap)

2016	2016	9/30/17
Cash Assets	3.5	2.7
Other	20.9	27.4
Current Assets	24.4	30.1
Accts Payable	6.5	12.1
Debt Due	8.7	31.0
Other	13.1	15.9
Current Liab.	28.3	59.0

ANNUAL RATES of change (per sh)
Revenues 2.0% 3.0% 3.5%
Cash Flow 4.5% 6.5% 8.0%
Earnings 5.0% 8.0% 9.0%
Dividends 1.5% 1.5% 5.0%
Book Value 4.0% 3.0% 4.5%

Cal-endar	Quarterly Revenues (\$mil)	Full Year
2014	27.1 29.2 32.7 28.1	117.1
2015	28.8 31.7 34.7 30.8	126.0
2016	30.6 32.7 37.8 31.8	132.9
2017	30.1 33.0 36.2 34.7	134.7
2018	33.0 37.0 38.0 35.0	143.0

Cal-endar	Earnings per Share	Full Year
2014	.20 .29 .42 .22	1.13
2015	.22 .31 .41 .28	1.22
2016	.29 .36 .54 .19	1.38
2017	.27 .33 .46 .34	1.40
2018	.33 .38 .60 .34	1.65

Cal-endar	Quarterly Dividends Paid	Full Year
2014	.19 .19 .19 .19	.76
2015	.1925 .1925 .1925 .1925	.78
2016	.19875 .19875 .19875 .21125	.81
2017	.21125 .21125 .21125 .22375	.86

BUSINESS: Middlesex Water Company engages in the ownership and operation of regulated water utility systems in New Jersey Delaware, and Pennsylvania. It also operates water and wastewater systems under contract on behalf of municipal and private clients in NJ and DE. Middlesex System provides water services to 61,000 retail customers, primarily in Middlesex County New Jersey In 2016, the Middlesex System accounted for 60% of operating revenues. At 12/31/16 the company had 309 employees. Incorporated: NJ President, CEO and Chairman Dennis W Doi Officers & directors own 3.5% of the common stock BlackRock Institutional Trust Co 7.2% (4/17 proxy); Add 1500 Ronson Road sehn NJ 08830. Tel 732-634-1500 Internet www.middlesexwater.com

Middlesex Water Company's battle with mother nature has yet to subside. The story hasn't changed much over the past three months, as weather-related disruptions took a toll on its top line once again. Operating in the Northeast region of the U.S. leaves MSEX vulnerable to extremely volatile weather conditions, which can noticeably impact customer water consumption. Specifically, its Middlesex New Jersey operations saw revenues contract \$1.8 million, year over year, due to softer consumption, while its Delaware utility system was essentially flat, thanks to contributions from added residential customers during the period. Overall, Middlesex generated \$36.2 million in revenues for the September period, \$1.6 million less than last year's haul. This has spurred us to trim \$3.0 million off our 2017 top-line forecast, to \$134 million.

The outlook for profit growth in 2018 is good. Operating margins ought to remain relatively steady, with few changes to the cost structure expected. Meantime, a reduced income tax rate (new tax act and various investment spending deductions) is the main driver behind our im-

proved perspective. All told, we look for earnings to expand 18% this year, to \$1.65 a share (+0.05), on revenues of \$143 million (\$2.0 million).

Long-term, infrastructure upgrades ought to bear fruit. Approximately \$12 million per year (for the next three years) is earmarked for the replacement of aging water mains, valves, and other infrastructure upgrades.

The company boosted its quarterly dividend payout by about 6%, to \$0.224 per share. Shareholders have enjoyed 45 years of consecutive dividend increases, and we don't think this streak will be broken anytime soon. At present, MSEX shares offer a yield that fractionally outpaces the average of all dividend paying stocks in *The Value Line Investment Survey*.

This issue is still a subpar selection for relative year-ahead price performance (Timeliness: 4). What's more total return potential over the pull to 2020 2022 is nothing to write home about. Thus, we think investors can find better options elsewhere, at this juncture.

Nicholas P. Patrikis January 12, 2018

FOURTEENTH EARLY PROCEEDINGS STARTS: MAJOR ATTORNEY SUES: 0.9 P/R/S/C/D/S/E/E/1/2017-129290-SV/SP a 9/20/18 06:56:07

Value Line

Carolina Water Service, Inc.

Docket No. 2017-292-WS

EXHIBIT DHC-3 CAROLINA WATER SERVICE, INC. PUBLIC UTILITY Docket No. 2017-292-WS

SJW GROUP NYSE-SJW			RECENT PRICE	63.47	P/E RATIO	23.6 (Trading: 23.1 Median: 23.8)	RELATIVE P/E RATIO	1.15	DIV'D YLD	1.4%	VALUE LINE								
TIMELINESS	3	Raised 6/30/17	High	45.3	43.0	35.1	30.4	28.2	28.8	26.9	30.1	33.7	35.7	56.9	89.3	Target Price	2020	2021	2022
SAFETY	3	New 4/22/11	Low	21.2	27.7	20.0	18.2	21.6	20.9	22.8	24.5	25.5	27.5	28.8	45.4				
TECHNICAL	2	Raised 1/5/18	LEGENDS 150 = Dividends p sh divided by Interest Rate Relative Price Strength 2-yr-1 split 3/05 Outlook: Yes Shaded area indicates recession																
BETA	70	1.00 = Market	2020-22 PROJECTIONS Price Gain Ann'l Total High 90 (+40%) 17% Low 80 (-8%) 7%																
Insider Decisions M A M J J A S O N to Buy 0 0 0 0 0 0 0 0 0 0 to Sell 6 8 0 0 0 0 0 0 0 1 to Hold 0 0 0 0 0 1 0 0 0 0			Institutional Decisions M A M J J A S O N to Buy 83 87 74 to Sell 59 73 56 Held 10726 10959 12340 Percent Shares Traded 15 10 5																
MARKET CAP: \$1.3 billion (Mid Cap) CURRENT POSITION (Mill) Cash Assets 5.2 25.3 7.6 Accts Receivable 16.4 16.4 63.0 Other 51.8 57.9 16.5 Current Assets 73.4 99.6 87.1 Accts Payable 16.2 18.7 30.7 Debt Due 38.1 14.3 Other 25.3 30.6 59.7 Current Liab. 79.6 63.8 90.4			MARKET CAP: \$1.3 billion (Mid Cap) 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018																
CAPITAL STRUCTURE as of 9/30/17 Total Debt \$431.0 mill Due in 5 Yrs \$14.3 mill LT Debt \$431.0 mill LT Interest \$20.0 mill (49% of Cap)			VALUATION PUB. LLC 20-22 Revenues per sh 21.10 Cash Flow per sh 5.85 Earnings per sh 3.45 Div'd Dec'd per sh 1.18 Cap'l Spending per sh 5.00 Book Value per sh 24.60 Common Shs Outstanding 23.00 Avg Ann'l P/E Ratio 22.0 Relative P/E Ratio 1.40 Avg Ann'l Div'd Yield 1.6%																
Leases, Uncapitalized: Annual rentals \$6.6 mill Pension Assets-12/16 \$113.9 mill Oblig. \$174.1 mill Pfd Stock None Common Stock 20 520 856 shs			7.45 7.97 8.20 9.14 9.86 10.35 11.25 12.12 11.68 11.82 12.85 14.01 13.73 15.76 14.97 16.81 18.10 17.95 1.49 1.55 1.75 1.89 2.21 2.38 2.30 2.44 2.21 2.38 2.80 2.97 2.90 4.42 3.86 4.76 4.60 4.80 77 78 91 .87 1.12 1.19 1.04 1.08 .81 .84 1.11 1.18 1.12 2.54 1.85 2.57 2.40 2.85 43 46 49 .51 53 57 61 65 66 68 69 71 73 75 78 81 1.04 .93 2.63 2.06 3.41 2.31 2.83 3.87 6.62 3.79 3.17 5.65 3.75 5.67 4.68 5.02 5.24 6.95 8.00 8.50 8.17 8.40 9.11 10.11 10.72 12.48 12.90 13.99 13.66 13.75 14.20 14.71 15.92 17.75 18.83 20.61 21.65 22.05 18.27 18.27 18.27 18.27 18.27 18.28 18.36 18.18 18.50 18.55 18.59 18.67 20.17 20.29 20.38 20.48 21.00 22.00 18.5 17.3 15.4 19.6 19.7 23.5 33.4 28.2 28.7 29.1 21.2 20.4 24.3 11.2 16.6 15.7 20.7 95 94 88 1.04 1.05 1.27 1.77 1.58 1.91 1.85 1.33 1.30 1.37 59 .84 83 1.01 3.0% 3.4% 3.5% 3.0% 2.4% 2.0% 1.7% 2.3% 2.8% 2.8% 2.9% 3.0% 2.7% 2.4% 2.5% 2.0% 9%																
ANNUAL RATES of change (per sh) Past 18 Yrs. Past 5 Yrs. Est'd '14-'16 to '20-'22 Revenues 5.0% 5.5% 5.0% Cash Flow 7.0% 12.0% 4.5% Earnings 8.0% 20.5% 7.0% Dividends 4.0% 3.0% 7.0% Book Value 5.5% 6.5% 4.5%			BUSINESS: SJW Group engages in the production, purchase, storage, purification, distribution and retail sale of water. It provides water service to approximately 229,000 connections with a total population of roughly one million people in the San Jose area and 13,000 connections that reaches about 39,000 residents in the region between San Antonio and Austin, Texas. The company also offers nonregulated water-related services and owns and operates commercial real estate investments. Has about 406 employees. Officers and directors (including Nancy O. Moss) own 26.9% outstanding shares (3/17 proxy). Chairman & CEO Richard Roth Inc. California Address 110 West Taylor Street San Jose CA 95110. Telephone (408) 279-7800. Internet: www.sjwater.com																
QUARTERLY REVENUES (\$mill) Cal-ender Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2014 54.6 70.4 125.4 69 319 2015 62.1 72.4 83.0 87.6 305.1 2016 81.1 86.9 112.3 79.4 339.9 2017 69.0 102.1 124.6 84.3 340.0 2018 73.0 105 125 90.0 399			SJW Group has finalized the sale of its wholly-owned subsidiary, Texas Water Alliance Limited. Early last year, SJW entered into an agreement with the Guadalupe-Blanco River Authority for total consideration of \$31 million. SJW netted cash proceeds of \$23.5 million, excluding a \$3 million holdback fee (due 2021). As a result of the completed sale and subsequent proceeds, the board of directors paid a special dividend of \$0.17 a share to stockholders on record as of November 29, 2017. Of note, this is in addition to its regular quarterly distribution. We are boosting our 2018 financial projections for several reasons. First revenue growth is in the cards, driven by cumulative rate increases and higher customer water usage. Meantime, operating expenses have yet to abate (marginally higher in the third quarter), but we think production costs can subside somewhat next year while administrative expenses can be held in check. Lastly a lower effective tax rate stemming from the recent corporate tax overhaul is the primary factor underpinning our bottom-line ramp. All told we now look for revenues of \$395 million (+\$25 million from last report's estimate) and earnings of \$2.85 a share (+\$0.25) this year. Investment spending is still the main theme rolling into next decade. Its spending budget, with approximately \$250 million to \$300 million in available funds will be periodically tapped to support various projects, infrastructure upgrades and general water system investments. Presently, management's focus is on the Montevina Water Treatment Plant project (retrofitting was expected to be completed by the end of 2017). This neutrally ranked equity has etched another high-water mark. Shares of the California based utility pushed past \$65 per share for the first time in its history before settling slightly below that level. Still, the stock logged an advance of about 10% over the past three months. While we are bullish on the company's business prospects over the pull to 2020-2022, SJW's rapid climb in share price gives us pause. In sum, we recommend investors wait for a better entry point before initiating a position here. <i>Nicholas P. Patrikis January 12, 2018</i>																
EARNINGS PER SHARE Cal-ender Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2014 .04 .34 1.88 .28 2.54 2015 .23 .36 .46 .80 1.85 2016 .16 .82 .92 .67 2.57 2017 .18 .90 .94 .58 2.60 2018 .27 .90 1.00 .68 2.85			Company's Financial Strength Stock's Price Stability 8+ Price Growth Persistence 35 Earnings Predictability 45																
QUARTERLY DIVIDENDS PAID Cal-ender Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2014 1875 1875 1875 1875 75 2015 1950 1950 1950 1950 78 2016 2025 2025 2025 2025 81 2017 217 2175 2175 3875 104 2018			February: Quarterly earnings may not add due to rounding. (B) Dividends historically paid in early March, June, September, and December. = Div'd reinvestment plan available. (C) In millions, adjusted for stock splits. (D) Paid special dividend of \$0.17 per share on 11/17																
Footnote: (A) Diluted earnings. Excludes nonrecurring losses: '03 \$1.97; '04 \$3.78; '05 \$1.09; '06 \$16.36; '08 \$1.22; '10, \$0.46 GAAP accounting as of 2013. Next earnings report due late			© 2018 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranty of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication service or product.																

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Carolina Water Service, Inc.

Docket No. 2017-292-WS

YORK WATER NDC-YORW		RECENT PRICE	33.35	P/E RATIO	30.0	(Trading: 34.4 Median: 24.0)	RELATIVE P/E RATIO	1.46	DIVID YLD	2.0%	VALUE LINE								
TIMELINESS	3 Raised 11/17/17	High	21.0	18.5	18.5	18.0	18.0	18.1	18.5	22.0	24.3	26.7	39.8	39.9	31.7	Target Price	2020	2021	2022
SAFETY	3 Lowered 7/17/15	Low	15.3	15.5	8.2	8.7	12.8	15.8	16.8	17.6	18.8	19.7	23.8						
TECHNICAL	2 Raised 1/5/18	LEGENDS - 10 x Dividends p sh divided by Interest Rate - Relative Price Strength 3 for 2 split 9/06 Options Yes Shaded area indicates recession																	
BETA	60 (1.00 = Market)	2020-22 PROJECTIONS Price Gain Ann'l Total Return High 45 (+38%) 70% Low 30 (-10%) Nil																	
Insider Decisions		M A M J J A S O N to Buy 1 1 3 2 2 1 3 2 2 1 3 2 Options 0 0 1 3 0 0 0 0 0 0 0 0 to Sell 0 0 0 0 0 0 0 0 0 0 0 0																	
Institutional Decisions		10/20/17 30/20/17 30/20/17 to Buy 39 42 40 to Sell 33 33 30 Net Buy 6 9 10 5/127 5/206 5/125																	
2001-2022		VALUE LINE PUB LLC 20-22 Revenues per sh 5.40 Cash Flow per sh 2.25 Earnings per sh A 1.60 Div'd Decl'd per sh 98 Cap'l Spending per sh 83 Book Value per sh 11.20 Common Shs Outst'g C 12.30 Avg Ann'l P/E Ratio 22.5 Relative P/E Ratio 1.40 Avg Ann'l Div'd Yield 2.8%																	
CAPITAL STRUCTURE as of 9/30/17		Total Debt \$86.9 mil. Due In 6 Yrs \$30.5 mil LT Debt \$86.9 mil. LT Interest \$5.4 mil (43% of Cap'l) Pension Assets 12/16 \$35.5 mil Oblig. \$40.8 mil Pfd Stock None Common Stock 12 859 432 shs																	
MARKET CAP: \$425 million (Small Cap)		CURRENT POSITION 2016 2016 9/30/17 Cash Assets 2.9 4.2 -- Accounts Receivable 3.5 4.3 4.4 Inventory (Avg. Cost) 8 7 9 Other 4.6 3.4 3.3 Current Assets 11.6 12.6 8.6 Accts Payable 1.8 3.7 4.0 Debt Due -- -- -- Other 4.4 4.5 6.1 Current Liab. 6.2 8.2 10.1																	
ANNUAL RATES		Past Past Est'd '14-'16 of change (per sh) 10 Yrs 5 Yrs to '20-'22 Revenues 4.0% 3.5% 6.5% "Cash Flow" 6.5% 6.5% 8.0% Earnings 5.5% 6.0% 9.5% Dividends 3.5% 3.0% 8.0% Book Value 5.0% 3.5% 4.5%																	
QUARTERLY REVENUES (\$ mil.)		Calendar Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2014 10.6 11.8 12.0 11.5 45.9 2015 11.2 11.9 12.4 11.6 47.1 2016 11.3 11.8 12.6 11.9 47.6 2017 11.3 12.3 12.7 12.2 48.5 2018 12.0 12.5 13.3 12.7 50.5																	
EARNINGS PER SHARE A		Calendar Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2014 .16 .22 .23 .28 .89 2015 .20 .22 .28 .27 .97 2016 .19 .23 .27 .23 .92 2017 .20 .23 .31 .31 1.05 2018 .24 .25 .34 .32 1.15																	
QUARTERLY DIVIDENDS PAID B		Calendar Mar.31 Jun.30 Sep.30 Dec.31 Full Year 2014 1.431 1.431 1.431 1.431 .572 2015 1.495 1.495 1.495 1.555 .604 2016 1.555 1.555 1.555 1.602 .627 2017 1.602 1.602 1.602 1.666 .647																	
BUSINESS:		The York Water Company is the oldest investor-owned regulated water utility in the United States. It has operated continuously since 1816. As of December 31, 2016, the company's average daily availability was 35.4 million gallons and its service territory had an estimated population of 196,000. Has more than 67,000 customers. Residential customers accounted for 63% of 2016 revenues; commercial and industrial (29%); other (8%). It also provides sewer billing services. Incorporated PA York had 105 full-time employees at 12/31/16. President/CEO: Jeffrey R. Hines. Officers/Directors own 1.1% of the common stock (3/17 proxy). Address: 130 East Market Street, York, Pennsylvania 17401. Telephone: (717) 845-3601. nmetel www.yorkwater.com.																	
Capital expenditures ought to remain par for the course going forward.		Management estimates it spent approximately \$25 million in 2017 on aging infrastructure, raw water pumping stations, and pipe replacements, more than double the year earlier total. With plenty of its footprint still needing to be brought up to speed, we anticipate at least several years of aggressive investment spending. York Water raised its quarterly dividend by 4%, to \$0.17 a share. This marks 21 consecutive years that the company has increased its annual dividend payout. The current yield is fractionally above that of the Value Line median, but should trend higher into next decade thanks to additional dividend hikes. York Water shares have moved up one notch for Timeliness, to 3, and are now pegged to track the year-ahead broader market averages. Prospects out to the 2020-2022 time frame are bright, though most of the benefits we envision appear to already be baked into the stock price. Capital appreciation potential does not stand out at the recent quotation.																	
We are adjusting our 2018 top- and bottom-line estimates.		Despite an expanding customer base (acquisition driven), York's top line is under some pressure. We now look for revenues of \$50.5 million in 2018, down from our prior forecast of \$52.0 million. Conversely, we are adding a dime to our earnings per share estimate, to \$1.15.																	
(A) Diluted earnings. Next earnings report due late February.		(C) In millions, adjusted for split																	
(B) Dividends historically paid in late February, June, September, and December		Company's Financial Strength 8+ Stock's Price Stability 60 Price Growth Persistence 55 Earnings Predictability 90																	

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EXHIBIT DHC-3 CAROLINA WATER SERVICE, INC. 2017-292-WS VALUE LINE

Office of Regulatory Staff
Characteristics of DCF Proxy Group
Carolina Water Service, Inc.
Docket No. 2017-292-WS

REVISED EXHIBIT DHC-4

Company	Market Capitalization (millions)[‡]	Retention Ratio^{‡◊}	Bond Rating[†]	Trailing P/E[‡]
American States	\$2,100	0.43	A+	30.8
American Water	\$15,900	0.44	A+	30.2
Aqua America	\$6,900	0.50	A+*	29.1
Artesian Resources	\$334	0.35	n/a	26.5
California Water	\$2,100	0.47	A+*	31.5
Connecticut Water	\$700	0.49	A	27.7
Global Water Resources	\$183		n/a	
Middlesex Water	\$650	0.43	A	31.3
SJW	\$1,300	0.65	A*	23.6
York Water	\$426	0.38	A-	34.4

[†]S&P rating from website: <https://www.standardandpoors.com>

*rating is of the principal subsidiary

[‡]from Revised Exhibit DHC-3

[◊]Retention ratio = 1 - payout ratio ("All Div'ds to Net Prof" on Revised Exhibit DHC-3)

ACCEPTED FOR EARLY PROCEEDINGS STATUS: MAILING AND/OR SERVICE: 05/18/2017 12:29:29 PM S/P a g r a d 0 6 0 0 5 6 7

Office of Regulatory Staff
Earnings per Share - Historical Data
 Carolina Water Service, Inc.
 Docket No. 2017-292-WS

COMPANIES \ YEARS	\$ per share*										
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
American States	\$0.81	\$0.78	\$0.81	\$1.11	\$1.12	\$1.41	\$1.61	\$1.57	\$1.60	\$1.62	\$1.85
American Water	N/A	\$1.10	\$1.25	\$1.53	\$1.72	\$2.11	\$2.06	\$2.39	\$2.64	\$2.62	\$3.00
Aqua America	\$0.57	\$0.58	\$0.62	\$0.72	\$0.83	\$0.87	\$1.16	\$1.20	\$1.14	\$1.32	\$1.36
Artesian Resources	\$0.90	\$0.86	\$0.97	\$1.00	\$0.83	\$1.13	\$0.94	\$1.07	\$1.26	\$1.41	N/A
California Water	\$0.75	\$0.95	\$0.98	\$0.91	\$0.86	\$1.02	\$1.02	\$1.19	\$0.94	\$1.01	\$1.40
Connecticut Water	\$1.05	\$1.11	\$1.19	\$1.13	\$1.13	\$1.53	\$1.66	\$1.92	\$2.04	\$2.08	\$2.20
Global Water Resources										-\$0.15	N/A
Middlesex Water	\$0.87	\$0.89	\$0.72	\$0.96	\$0.84	\$0.90	\$1.03	\$1.13	\$1.22	\$1.38	\$1.40
SJW	\$1.04	\$1.08	\$0.81	\$0.84	\$1.11	\$1.18	\$1.12	\$2.54	\$1.85	\$2.57	\$2.60
York Water	\$0.57	\$0.57	\$0.64	\$0.71	\$0.71	\$0.72	\$0.75	\$0.89	\$0.97	\$0.92	\$1.05

COMPANIES \ YEARS	Ratios of Change over Previous Year										
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
American States	0.96	1.04	1.04	1.37	1.01	1.26	1.14	0.98	1.02	1.01	1.14
American Water	N/A	1.14	1.14	1.22	1.12	1.23	0.98	1.16	1.10	0.99	1.15
Aqua America	1.02	1.07	1.07	1.16	1.15	1.05	1.33	1.03	0.95	1.16	1.03
Artesian Resources	0.93	0.96	1.13	1.03	0.83	1.36	0.83	1.14	1.18	1.12	N/A
California Water	1.27	1.03	1.03	0.93	0.95	1.19	1.00	1.17	0.79	1.07	1.39
Connecticut Water	1.06	1.07	1.07	0.95	1.00	1.35	1.08	1.16	1.06	1.02	1.06
Global Water Resources											
Middlesex Water	1.02	0.81	0.81	1.33	0.88	1.07	1.14	1.10	1.08	1.13	1.01
SJW	1.04	0.75	0.75	1.04	1.32	1.06	0.95	2.27	0.73	1.39	1.01
York Water	1.00	1.12	1.12	1.11	1.00	1.01	1.04	1.19	1.09	0.95	1.14

*Sources are on page 3 of 3 except 2007 numbers of Artesian Resources are from Revised Exhibit DHC-3 Page 4 of 11.

Office of Regulatory Staff
Earnings per Share - Historical Data
Carolina Water Service, Inc.
Docket No. 2017-292-WS

COMPANIES	10-yr Averages*		5-yr. Averages		3-Yr. Averages	
	Compound	Simple	Compound	Simple	Compound	Simple
American States	8.61%	9.30%	5.58%	5.81%	5.62%	5.79%
American Water	10.86%	12.11%	7.29%	7.57%	7.87%	8.07%
Aqua America	9.09%	10.41%	9.35%	10.12%	4.26%	4.61%
Artesian Resources†	3.81%	5.00%	11.18%	12.56%	14.47%	14.50%
California Water	6.44%	7.75%	6.54%	8.34%	5.57%	8.35%
Connecticut Water	7.68%	8.14%	7.53%	7.63%	4.64%	4.66%
Global Water Resources						
Middlesex Water	4.87%	5.79%	9.24%	9.34%	7.40%	7.51%
SJW	9.60%	15.56%	17.12%	26.92%	0.78%	4.31%
York Water	6.30%	6.54%	7.84%	8.16%	5.67%	5.99%
Means	7.47%	8.96%	9.07%	10.72%	6.25%	7.09%
Medians	7.68%	8.14%	7.84%	8.34%	5.62%	5.99%
Average of Mean & Median	8.06%	8.99%	8.99%	8.99%	6.24%	6.24%

*American Water is on a nine-year basis, as 2007 was a pro forma negative number

†Artesian Resources' numbers are set back one year, as 2017 information was not available; 2007=\$47.3 million.

Average of
Period
Averages
7.76%

Office of Regulatory Staff
Book Value per Share - Historical Data
 Carolina Water Service, Inc.
Docket No. 2017-292-WS

COMPANIES	10-yr Averages*		5-yr. Averages		3-Yr. Averages	
	Compound	Simple	Compound	Simple	Compound	Simple
American States	4.94%	5.00%	3.77%	3.85%	2.36%	2.45%
American Water	2.10%	2.21%	4.24%	4.24%	4.10%	4.11%
Aqua America	6.61%	6.63%	7.04%	7.05%	6.19%	6.19%
Artesian Resources [†]	4.14%	4.21%	3.03%	3.03%	3.34%	3.35%
California Water	4.45%	4.48%	4.86%	4.91%	2.94%	2.94%
Connecticut Water	7.40%	8.56%	3.10%	3.61%	9.02%	9.14%
Global Water Resources						
Middlesex Water	3.33%	3.35%	3.97%	3.98%	4.46%	4.46%
SJW	5.31%	5.39%	8.04%	8.06%	6.84%	6.86%
York Water	4.53%	4.57%	3.77%	3.77%	4.50%	4.50%
Means	4.76%	4.93%	4.65%	4.72%	4.86%	4.89%
Medians	4.53%	4.57%	3.97%	3.98%	4.46%	4.46%
Average of Mean & Median		4.70%		4.33%		4.67%

*American Water is on a nine-year basis as 2007 was a pro forma negative number

[†]Artesian Resources' numbers are set back one year, as 2017 information was not available; 2007=\$47.3 million.

Average of
 Period
 Averages
4.56%

Office of Regulatory Staff
Dividends per Share - Historical Data
Carolina Water Service, Inc.
Docket No. 2017-292-WS

COMPANIES \ YEARS	\$ per share*										
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
American States	\$0.48	\$0.50	\$0.51	\$0.52	\$0.55	\$0.64	\$0.76	\$0.83	\$0.87	\$0.91	\$0.99
American Water	N/A	\$0.40	\$0.82	\$0.86	\$0.90	\$1.21	\$0.84	\$1.21	\$1.33	\$1.47	\$1.62
Aqua America	\$0.38	\$0.41	\$0.44	\$0.47	\$0.50	\$0.54	\$0.58	\$0.63	\$0.69	\$0.74	\$0.79
Artesian Resources	\$0.66	\$0.71	\$0.72	\$0.75	\$0.76	\$0.79	\$0.82	\$0.85	\$0.87	\$0.90	N/A
California Water	\$0.58	\$0.59	\$0.59	\$0.60	\$0.62	\$0.63	\$0.64	\$0.65	\$0.67	\$0.69	\$0.72
Connecticut Water	\$0.87	\$0.88	\$0.90	\$0.92	\$0.94	\$0.96	\$0.98	\$1.01	\$1.05	\$1.12	\$1.18
Global Water Resources										\$0.17	\$0.27
Middlesex Water	\$0.69	\$0.70	\$0.71	\$0.72	\$0.73	\$0.74	\$0.75	\$0.76	\$0.78	\$0.81	\$0.86
SJW	\$0.61	\$0.65	\$0.66	\$0.68	\$0.69	\$0.71	\$0.73	\$0.75	\$0.78	\$0.81	\$1.04
York Water	\$0.48	\$0.49	\$0.51	\$0.52	\$0.53	\$0.54	\$0.55	\$0.57	\$0.60	\$0.63	\$0.65

COMPANIES \ YEARS	Ratios of Change over Previous Year										
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
American States	1.04	1.02	1.02	1.02	1.06	1.16	1.19	1.09	1.05	1.05	1.09
American Water		2.05	1.05	1.05	1.05	1.34	0.69	1.44	1.10	1.11	1.10
Aqua America	1.08	1.07	1.07	1.07	1.06	1.08	1.07	1.09	1.10	1.07	1.07
Artesian Resources	1.08	1.01	1.01	1.04	1.01	1.04	1.04	1.04	1.02	1.03	N/A
California Water	1.02	1.00	1.02	1.02	1.03	1.02	1.02	1.02	1.03	1.03	1.04
Connecticut Water	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.03	1.04	1.07	1.05
Global Water Resources											
Middlesex Water	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.03	1.04	1.06
SJW	1.07	1.02	1.03	1.03	1.01	1.03	1.03	1.03	1.04	1.04	1.28
York Water	1.02	1.04	1.02	1.02	1.02	1.02	1.02	1.04	1.05	1.05	1.03

*Sources are on page 3 of 3 except 2007 numbers of Artesian Resources are from Revised Exhibit DHC-3 Page 4 of 11.

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COMPANIES \ YEARS	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
	\$ per share*										
American States	\$301	\$319	\$361	\$399	\$419	\$467	\$472	\$466	\$459	\$436	\$445
American Water	N/A	\$2,337	\$2,441	\$2,711	\$2,666	\$2,877	\$2,902	\$3,011	\$3,159	\$3,302	\$3,380
Aqua America	\$603	\$627	\$671	\$726	\$712	\$758	\$769	\$780	\$814	\$820	\$800
Artesian Resources	\$53	\$56	\$61	\$65	\$65	\$71	\$69	\$73	\$77	\$79	N/A
California Water	\$367	\$410	\$449	\$460	\$502	\$560	\$584	\$598	\$588	\$609	\$660
Connecticut Water	\$59	\$61	\$59	\$66	\$69	\$84	\$92	\$94	\$96	\$99	\$106
Global Water Resources											
Middlesex Water	\$86	\$91	\$91	\$103	\$102	\$110	\$115	\$117	\$126	\$133	\$134
SJW	\$207	\$220	\$216	\$216	\$239	\$262	\$277	\$320	\$305	\$340	\$380
York Water	\$31	\$33	\$37	\$39	\$41	\$41	\$42	\$46	\$47	\$48	\$49

COMPANIES \ YEARS	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
	Ratios of Change over Previous Year										
American States	1.06	1.13	1.10	1.10	1.05	1.11	1.01	0.99	0.98	0.95	1.02
American Water		1.04	1.11	1.11	0.98	1.08	1.01	1.04	1.05	1.05	1.02
Aqua America	1.04	1.07	1.08	1.08	0.98	1.06	1.01	1.01	1.04	1.01	0.98
Artesian Resources	1.11	1.07	1.08	1.07	1.00	1.08	0.98	1.05	1.06	1.03	N/A
California Water	1.12	1.10	1.02	1.02	1.09	1.12	1.04	1.02	0.98	1.04	1.08
Connecticut Water	1.04	0.97	1.12	1.12	1.05	1.21	1.09	1.03	1.02	1.03	1.07
Global Water Resources											
Middlesex Water	1.06	1.00	1.13	1.13	0.99	1.08	1.04	1.02	1.08	1.05	1.01
SJW	1.07	0.98	1.00	1.00	1.11	1.09	1.06	1.15	0.95	1.11	1.12
York Water	1.04	1.13	1.05	1.05	1.04	1.02	1.02	1.08	1.03	1.01	1.02

*Sources are on page 3 of 3 except 2007 numbers of Artesian Resources are from Revised Exhibit DHC-3 Page 4 of 11.

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COMPANIES	10-yr Averages*		5-yr. Averages		3-Yr. Averages	
	Compound	Simple	Compound	Simple	Compound	Simple
American States	3.97%	4.13%	-0.96%	-0.93%	-1.51%	-1.47%
American Water	4.19%	4.24%	3.28%	3.29%	3.93%	3.93%
Aqua America	2.88%	2.94%	1.09%	1.11%	0.85%	0.89%
Artesian Resources [†]	5.28%	5.35%	3.97%	4.04%	4.61%	4.62%
California Water	6.04%	6.13%	3.34%	3.39%	3.37%	3.45%
Connecticut Water	6.03%	6.21%	4.81%	4.85%	4.09%	4.11%
Global Water Resources						
Middlesex Water	4.52%	4.60%	3.95%	3.98%	4.60%	4.63%
SJW	6.28%	6.47%	7.76%	8.00%	5.93%	6.21%
York Water	4.44%	4.50%	3.22%	3.25%	1.85%	1.86%
Means	4.85%	4.95%	3.38%	3.44%	3.08%	3.14%
Medians	4.52%	4.60%	3.34%	3.39%	3.93%	3.93%
Average of Mean & Median		4.73%		3.39%		3.52%
						3.88%

*American Water is on a nine-year basis as 2007 was a pro forma negative number

[†]Artesian Resources' numbers are set back one year, as 2017 information was not available; 2007=\$47.3 million.

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<u>COMPANIES</u>	<u>Estimate</u>	<u>Growth Rate</u>	<u>Sources</u>
American States	\$590.0	8.39%	Revised Exhibit DHC-3, p. 1 of 11
American Water	\$4,325.0	7.30%	Revised Exhibit DHC-3, p. 2 of 11
Aqua America	\$1,085.0	9.10%	Revised Exhibit DHC-3, p. 3 of 11
Artesian Resources			Revised Exhibit DHC-3, p. 5 of 11
California Water	\$750.0	3.72%	Revised Exhibit DHC-3, p. 6 of 11
Connecticut Water	\$160.0	12.48%	Revised Exhibit DHC-3, p. 7 of 11
Global Water Resources			Revised Exhibit DHC-3, p. 8 of 11
Middlesex Water	\$160.0	5.20%	Revised Exhibit DHC-3, p. 9 of 11
SJW	\$485.0	7.22%	Revised Exhibit DHC-3, p. 10 of 11
York Water	\$67.5	9.91%	Revised Exhibit DHC-3, p. 11 of 11
Means		7.91%	
Medians		7.85%	
Average of Mean & Median		7.88%	

DCF Summary

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Dividend Yields

<u>Company</u>	<u>Yield</u>	<u>Source</u>
American States	1.90%	Revised Exhibit DHC-3, p. 1 of 11
American Water	2.00%	Revised Exhibit DHC-3, p. 2 of 11
Aqua America	2.20%	Revised Exhibit DHC-3, p. 3 of 11
Artesian Resources	2.50%	Revised Exhibit DHC-3, p. 5 of 11
California Water	1.60%	Revised Exhibit DHC-3, p. 6 of 11
Connecticut Water	2.10%	Revised Exhibit DHC-3, p. 7 of 11
Global Water Resources	3.10%	Revised Exhibit DHC-3, p. 8 of 11
Middlesex Water	2.30%	Revised Exhibit DHC-3, p. 9 of 11
SJW	1.40%	Revised Exhibit DHC-3, p. 10 of 11
York Water	2.00%	Revised Exhibit DHC-3, p. 11 of 11
<i>average</i>	2.11%	

Summary of Historical & Estimated Growth Rates

	<u>Historical</u>	<u>Estimates</u>	<u>Average of Historical & Estimates*</u>	<u>Sources of Historical & Averages</u>
EPS	7.76%	8.72%	8.24%	Revised Exhibit DHC-5, pp. 2 & 3
BVPS	4.56%	5.21%	4.89%	Revised Exhibit DHC-6, pp. 2 & 3
DPS	5.23%	9.32%	7.28%	Revised Exhibit DHC-7, pp. 2 & 3
Sales/Rev	3.88%	7.88%	<u>5.88%</u>	Revised Exhibit DHC-8, pp. 2 & 3
		<i>Growth</i>	6.57%	
		<i>+ Dividend Yield</i>	2.11%	
		<i>+Dividend Yield Growth</i>	0.14%	
		<i>= Indicated DCF Cost of Equity</i>	<u>8.82%</u>	

*Computed: (Historical + Estimates)/2

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Company Name	Ticker	Industry	Beta	Book Value 5 Yr Growth Rate
CAE Inc	CAE.TO	Aerospace/Defense	0.75	5.50
CPI Aerostructures Inc	CVU	Aerospace/Defense	0.55	2.50
Elbit Systems Ltd	ESLT	Aerospace/Defense	0.80	9.00
HEICO Corp (Class A)	HEIA	Aerospace/Defense	0.90	8.50
Lockheed Martin Corp	LMT	Aerospace/Defense	0.80	1.00
Raytheon Co	RTN	Aerospace/Defense	0.80	6.00
SIFCO Industries	SIF	Aerospace/Defense	0.75	2.00
Air T Inc	AIRT	Air Transport	0.55	3.50
Allegiant Travel Company	ALGT	Air Transport	0.90	6.50
WestJet Airlines Ltd	WJA.TO	Air Transport	0.80	8.00
Alpha Pro Tech Ltd	APT	Apparel	0.55	5.50
Cherokee Inc	CHKE	Apparel	0.75	24.00
Carters Inc	CRI	Apparel	0.85	6.50
Delta Apparel Inc	DLA	Apparel	0.80	4.50
Dorman Products Inc	DORM	Auto Parts	0.90	15.50
Ameris Bancorp	ABCB	Bank	0.90	10.00
Access National Corporation	ANCX	Bank	0.80	7.50
Arrow Financial Corporation	AROW	Bank	0.75	6.00
Bridge Bancorp Inc	BDGE	Bank	0.90	11.00
Bar Harbor Bankshares	BHB	Bank	0.90	5.50
Bank South Carolina Corp	BKSC	Bank	0.60	5.50
BSB Bancorp Inc	BLMT	Bank	0.60	2.00
Bank of Montreal	BMO.TO	Bank	0.80	9.50
Bank of Marin Bancorp	BMRC	Bank	0.75	9.00
Bryn Mawr Bank Corporation	BMTC	Bank	0.90	9.50
Beneficial Bancorp Inc	BNCL	Bank	0.75	10.50
Bank of Nova Scotia	BNS.TO	Bank	0.85	10.50
Bank of Commerce Holdings	BOCH	Bank	0.60	4.50
Bank of the James Financial Group Inc	BOTJ	Bank	0.55	7.50
Camden National Corporation	CAC	Bank	0.85	6.00
Capital City Bank Group Inc	CCBG	Bank	0.75	1.00
CNB Financial Corporation	CCNE	Bank	0.90	8.50
C and F Financial Corp	CFFI	Bank	0.70	9.50
Chemung Financial Corporation	CHMG	Bank	0.55	2.00
Canadian Imperial Bank of Commerce	CM.TO	Bank	0.80	10.50
Century BanCorp	CNBKA	Bank	0.65	8.00
ConnectOne Bancorp Inc	CNOB	Bank	0.85	17.50
Centerstate Banks Inc	CSFL	Bank	0.90	4.50
Community Shores Bank Corporation	CSHB	Bank	0.55	17.50
Community Trust Bancorp Inc	CTBI	Bank	0.85	6.00
Codorus Valley Bancorp	CVLY	Bank	0.70	8.00

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Citizens and Northern Corp	CZNC	Bank	0.70	5.50
First Bancorp	FBNC	Bank	0.90	0.50
First Connecticut Bancorp Inc	FBNK	Bank	0.70	2.50
First Community Bancshares Inc	FCBC	Bank	0.90	4.50
Farmers Capital Bank Corp	FFKT	Bank	0.80	7.00
First Financial Northwest Inc	FFNW	Bank	0.70	3.00
Financial Institutions Inc	FISI	Bank	0.90	6.00
First Of Long Island Corp	FLIC	Bank	0.90	8.00
FNCB Bancorp Inc.	FNCB	Bank	0.60	6.50
First Bancorp Inc	FNLC	Bank	0.85	3.50
First United Corporation	FUNC	Bank	0.60	5.00
First US Bancshares Inc.	FUSB	Bank	0.60	0.50
Guaranty Bancorp	GBNK	Bank	0.70	1.50
Heritage Financial Corp	HFWA	Bank	0.85	4.00
National Bank of Canada	NA.TO	Bank	0.85	8.50
Northfield Bancorp Inc	NFBK	Bank	0.70	6.00
National Bankshares Inc	NKSH	Bank	0.90	5.50
Northrim BanCorp Inc	NRIM	Bank	0.80	7.00
Old Line Bancshares Inc	OLBK	Bank	0.70	6.50
Oritani Financial Corp	ORIT	Bank	0.75	0.50
Premier Financial Bancorp Inc	PFBI	Bank	0.55	5.00
Peoples Financial Services Corp	PFIS	Bank	0.85	15.50
Peapack Gladstone Financial Corp	PGC	Bank	0.85	9.00
Parke Bancorp Inc	PKBK	Bank	0.55	10.50
Plumas Bancorp	PLBC	Bank	0.55	9.50
Pacific Premier Bancorp	PPBI	Bank	0.90	12.50
Penns Woods Bancorp Inc	PWOD	Bank	0.85	9.00
Royal Bank of Canada	RY.TO	Bank	0.80	11.00
Southern First Bancshares Inc	SFST	Bank	0.70	8.50
Summit Financial Group Inc	SMMF	Bank	0.70	3.50
Summit State Bank	SSBI	Bank	0.55	3.50
Stewardship Financial Corp	SSFN	Bank	0.55	1.50
Stock Yards Bancorp Inc	SYBT	Bank	0.85	9.00
Territorial Bancorp Inc	TBNK	Bank	0.60	3.00
Toronto Dominion Bank	TD.TO	Bank	0.75	9.00
Tompkins Financial Corporation	TMP	Bank	0.90	6.00
Union Bankshares Inc	UNB	Bank	0.55	5.50
UNIVEST Corp of Pennsylvania	UVSP	Bank	0.85	2.50
First Busey Corp	BUSE	Bank (Midwest)	0.85	4.50
Enterprise Financial Services Corp	EFSC	Bank (Midwest)	0.85	11.00
First Business Financial Services Inc	FBIZ	Bank (Midwest)	0.70	9.00
Farmers National Banc Corp	FMNB	Bank (Midwest)	0.70	3.50
First Merchants Corp	FRME	Bank (Midwest)	0.85	6.00
Horizon Bancorp	HBNC	Bank (Midwest)	0.90	10.00
Hawthorn Bancshares Inc	HWBK	Bank (Midwest)	0.55	2.50

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Independent Bank Corporation	IBCP	Bank (Midwest)	0.75	7.50
First Internet Bancorp	INBK	Bank (Midwest)	0.85	5.50
LCNB Corp	LCNB	Bank (Midwest)	0.60	5.50
Lakeland Financial Corp	LKFN	Bank (Midwest)	0.90	9.00
Macatawa Bank Corporation	MCBC	Bank (Midwest)	0.75	13.50
MutualFirst Financial Inc	MFSF	Bank (Midwest)	0.55	13.00
Old Second Bancorp Inc	OSBC	Bank (Midwest)	0.90	10.00
Peoples Bancorp Inc	PEBO	Bank (Midwest)	0.75	4.00
QCR Holdings Inc	QCRH	Bank (Midwest)	0.70	0.50
First Financial Corporation	THFF	Bank (Midwest)	0.85	5.50
Coca Cola Bottling Company	COKE	Beverage	0.80	15.00
Cott Corporation	COT	Beverage	0.90	2.00
Dr Pepper Snapple Group Inc	DPS	Beverage	0.75	0.50
National Beverage	FIZZ	Beverage	0.80	13.50
MGP Ingredients	MGPI	Beverage	0.80	12.00
Monster Beverage Corporation	MNST	Beverage	0.80	30.00
Constellation Brands	STZ	Beverage	0.75	21.00
Molson Coors Brewing Company	TAP	Beverage	0.90	1.50
Willamette Valley Vineyards Inc	WVVI	Beverage	0.70	7.50
ArQule Inc	ARQL	Biotechnology	0.80	24.50
EXACT Sciences Corp	EXAS	Biotechnology	0.80	25.00
iBio Inc	IBIO	Biotechnology	0.85	15.50
Kamada Ltd	KMDA	Biotechnology	0.80	19.50
Myriad Genetics Inc	MYGN	Biotechnology	0.80	9.50
Sinovac Biotech Ltd	SVA	Biotechnology	0.70	0.50
Bio-Techne Corp.	TECH	Biotechnology	0.90	8.50
CBOE Holdings Inc	CBOE	Brokers & Exchanges	0.70	7.50
CME Group Inc	CME	Brokers & Exchanges	0.75	1.00
Intercontinental Exch.	ICE	Brokers & Exchanges	0.80	26.50
Nasdaq Inc.	NDAQ	Brokers & Exchanges	0.90	5.00
Huttig Building Products Inc	HBP	Building Materials	0.90	5.50
ADDvantage Technologies Group Inc	AEY	Cable TV	0.60	4.50
Cogeco Communic.	CCA.TO	Cable TV	0.60	7.00
Cogeco Inc	CGO.TO	Cable TV	0.65	3.00
Comcast Corporation	CMCSA	Cable TV	0.90	6.00
Shaw Communications Inc (Class B)	SJRB.TO	Cable TV	0.65	11.50
Terra Nitrogen	TNH	Chemical (Basic)	0.80	12.00
Landec Corp	LNDC	Chemical (Diversified)	0.90	8.50
Lightwave Logic Inc	LWLG	Chemical (Diversified)	0.70	24.50
Ocean Bio Chem Inc	OBCI	Chemical (Diversified)	0.60	10.50
Adm Tronics Unlimited Inc	ADMT	Chemical (Specialty)	0.80	16.00
Flexible Solutions International Inc	FSI	Chemical (Specialty)	0.85	3.50
Sigma Industries Inc	SSG.TO	Chemical (Specialty)	0.80	5.50
Asure Software Inc	ASUR	Computer Software	0.65	1.50
Computer Modelling Group Ltd	CMG.TO	Computer Software	0.85	5.00

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Formula Systems Ltd	FORTY	Computer Software	0.85	12.00
Information Analysis Incorporated	IAIC	Computer Software	0.60	1.00
Intelligent Systems Corporation New	INS	Computer Software	0.70	30.00
MAM Software Group Inc	MAMS	Computer Software	0.65	1.00
Paybox Corp.	PBOX	Computer Software	0.60	1.50
QAD Inc	QADA	Computer Software	0.90	16.00
RealPage Inc	RP	Computer Software	0.85	9.50
Simulations Plus Inc	SLP	Computer Software	0.60	8.00
Symantec Corp	SYMC	Computer Software	0.90	2.00
Wayside Technology Group Inc	WSTG	Computer Software	0.60	6.50
AstroNova Inc.	ALOT	Computers/Peripherals	0.60	4.00
KeyTronic Corporation	KTCC	Computers/Peripherals	0.70	8.50
Mercury Systems Inc	MRCY	Computers/Peripherals	0.85	5.50
Top Image Systems Ltd	TISA	Computers/Peripherals	0.80	19.50
Chemed Corporation	CHE	Diversified Co.	0.80	7.00
CKX Lands Inc	CKX	Diversified Co.	0.65	6.00
Elxsi Corporation	ELXS	Diversified Co.	0.60	32.50
Kaman Corporation	KAMN	Diversified Co.	0.90	9.00
McRae Industries Inc	MCRAA	Diversified Co.	0.55	9.00
Nobility Homes Inc	NOBH	Diversified Co.	0.70	4.00
Rogers Communications Inc (Class B)	RCIB.TO	Diversified Co.	0.55	8.50
Reading International Inc	RDI	Diversified Co.	0.90	2.50
Seaboard Corp	SEB	Diversified Co.	0.90	11.00
Synalloy Corp	SYNL	Diversified Co.	0.75	1.50
Aradigm Corporation	ARDM	Drug	0.65	30.00
Bristol Myers Squibb Co	BMY	Drug	0.90	2.50
ChromaDex Corporation	CDXC	Drug	0.75	3.00
Cyanotech Corp	CYAN	Drug	0.60	8.50
Eli Lilly and Co	LLY	Drug	0.75	5.50
Perrigo Company Plc Ireland	PRGO	Drug	0.85	36.00
RBC Life Sciences Inc	RBCL	Drug	0.65	52.00
Check Point Software Technologies Inc	CHKP	E-Commerce	0.80	9.50
Magic Software Enterprises Ltd	MGIC	E-Commerce	0.90	12.50
Open Text Corp	OTEX	E-Commerce	0.90	16.50
SharpSpring Inc.	SHSP	E-Commerce	0.90	34.50
Creative Learning Corporation	CLCN	Educational Services	0.70	26.50
Capella Education Company	CPLA	Educational Services	0.90	7.50
CPS Technologies Corp	CPSH	Electrical Equipment	0.80	4.50
FLIR Systems Inc	FLIR	Electrical Equipment	0.90	5.50
WW Grainger Inc	GWW	Electrical Equipment	0.90	2.00
Surge Components Inc/NY	SPRS	Electrical Equipment	0.65	17.50
Espey Manufacturing and Electronics Corp	ESP	Electronics	0.55	1.00
IEH Corporation	IEHC	Electronics	0.55	16.00
LRAD Corp	LRAD	Electronics	0.70	15.00
Magal Security Systems Ltd	MAGS	Electronics	0.70	3.00

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Emerson Radio Corp	MSN	Electronics	0.60	0.50
NAPCO Security Technologies Inc	NSSC	Electronics	0.85	8.00
Smith Midland Corp	SMID	Engineering & Const	0.70	3.00
SNC-Lavalin Group	SNC.TO	Engineering & Const	0.80	17.00
Stantec Inc.	STN.TO	Engineering & Const	0.80	17.00
Beasley Broadcast Group Inc	BBGI	Entertainment	0.85	18.50
DHX Media Ltd	DHXB.TO	Entertainment	0.80	7.50
Saga Communications Inc	SGA	Entertainment	0.90	9.00
Dolby Laboratories Inc	DLB	Entertainment Tech	0.85	5.00
Koss Corporation	KOSS	Entertainment Tech	0.75	3.00
Diversified Royalty Corporation	BEVFF	Environmental	0.85	2.50
Republic Services Inc	RSG	Environmental	0.75	2.00
Stericycle Inc	SRCL	Environmental	0.90	13.50
Waste Connections	WCN	Environmental	0.85	13.00
Ambase Corporation	ABCP	Financial Svcs. (Div.)	0.55	44.50
Assurant Inc	AIZ	Financial Svcs. (Div.)	0.90	11.00
CBIZ Inc	CBZ	Financial Svcs. (Div.)	0.85	12.00
Costar Technologies Inc	CSTI	Financial Svcs. (Div.)	0.60	131.00
Enstar Group Limited	ESGR	Financial Svcs. (Div.)	0.80	12.50
FirstCash Inc.	FCFS	Financial Svcs. (Div.)	0.85	17.50
Fidelity Nat'l Info.	FIS	Financial Svcs. (Div.)	0.90	4.50
FRMO Corporation	FRMO	Financial Svcs. (Div.)	0.60	10.50
GAIN Capital Holdings Inc	GCAP	Financial Svcs. (Div.)	0.90	5.00
Green Dot Corporation	GDOT	Financial Svcs. (Div.)	0.90	18.50
Horace Mann Educators Corporation	HMN	Financial Svcs. (Div.)	0.90	7.00
Hennessy Advisors Inc	HNNA	Financial Svcs. (Div.)	0.75	11.00
Investors Title Company	ITIC	Financial Svcs. (Div.)	0.70	10.00
Morningstar Inc	MORN	Financial Svcs. (Div.)	0.90	22.00
Morguard Corp	MRC.TO	Financial Svcs. (Div.)	0.70	20.50
Nicholas Financial Inc	NICK	Financial Svcs. (Div.)	0.65	5.50
OTC Markets Group Inc	OTCM	Financial Svcs. (Div.)	0.55	10.00
Sutherland Asset Management	SLD	Financial Svcs. (Div.)	0.70	1.50
Steel Partners Holdings LP LTD	SPLP	Financial Svcs. (Div.)	0.65	4.00
JTH Holding Inc	TAX	Financial Svcs. (Div.)	0.85	0.50
Willis Lease Finance Corporation	WLFC	Financial Svcs. (Div.)	0.75	6.00
B and G Foods Inc	BGS	Food Processing	0.60	12.50
Campbell Soup Co	CPB	Food Processing	0.75	12.00
CTD Holdings Inc	CTDH	Food Processing	0.55	7.50
Calavo Growers Inc	CVGW	Food Processing	0.60	13.00
Farmer Brothers Company	FARM	Food Processing	0.85	4.00
Fresh Del Monte Produce Inc	FDP	Food Processing	0.80	4.50
Flowers Foods Inc	FLO	Food Processing	0.90	9.00
Hormel Foods Corporation	HRL	Food Processing	0.75	11.00
Hershey Company	HSY	Food Processing	0.75	6.50
John B Sanfilippo and Son Inc	JBSS	Food Processing	0.65	4.00

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J and J Snack Foods Corp	JJSF	Food Processing	0.80	9.00
Kellogg Company	K	Food Processing	0.70	3.00
Lancaster Colony Corporation	LANC	Food Processing	0.85	1.50
Snyders Lance Inc	LNCE	Food Processing	0.90	8.50
Lifeway Foods Inc	LWAY	Food Processing	0.90	7.00
Medifast Inc	MED	Food Processing	0.85	11.00
Maple Leaf Foods Inc	MFI.TO	Food Processing	0.70	7.50
McCormick and Co	MKC	Food Processing	0.80	4.00
Natural Alternatives International Inc	NAII	Food Processing	0.60	9.00
Nestle SA	NSRGY	Food Processing	0.75	3.50
Pilgrims Pride Corp	PPC	Food Processing	0.90	8.50
Sanderson Farms Inc	SAFM	Food Processing	0.75	13.50
Saputo Inc.	SAP.TO	Food Processing	0.65	13.00
Seneca Foods Corp	SENEB	Food Processing	0.70	6.50
Sino Agro Foods Inc	SIAF	Food Processing	0.55	10.00
JM Smucker Company	SJM	Food Processing	0.75	5.50
Treehouse Foods Inc	THS	Food Processing	0.75	11.00
Tootsie Roll	TR	Food Processing	0.85	2.50
Tyson Foods	TSN	Food Processing	0.80	12.50
Carriage Services Inc	CSV	Funeral Services	0.90	7.50
Crown Crafts Inc	CRWS	Furn/Home Furnishings	0.65	3.50
Culp Inc	CULP	Furn/Home Furnishings	0.90	12.50
Hooker Furniture Corporation	HOFT	Furn/Home Furnishings	0.80	5.00
Kewaunee Scientific Corporation	KEQU	Furn/Home Furnishings	0.55	4.00
Computer Programs and Systems Inc	CPSI	Healthcare Information	0.60	14.00
OptimizeRx Corporation	OPRX	Healthcare Information	0.60	15.50
Quality Systems Inc	QSII	Healthcare Information	0.85	3.00
Deere and Co	DE	Heavy Truck & Equip	0.90	8.00
St Joe Company	JOE	Homebuilding	0.90	2.50
NVR Inc	NVR	Homebuilding	0.85	1.50
Canterbury Park Holding Corp	CPHC	Hotel/Gaming	0.60	3.50
Dover Downs Gaming and Entertainment I	DDE	Hotel/Gaming	0.55	0.50
Full House Resorts Inc	FLL	Hotel/Gaming	0.60	2.50
Golden Entertainment Inc.	GDEN	Hotel/Gaming	0.65	1.00
Gaming Partners International Corp	GPIC	Hotel/Gaming	0.55	6.00
Vail Resorts	MTN	Hotel/Gaming	0.80	5.00
Tropicana Entertainment Inc	TPCA	Hotel/Gaming	0.70	9.50
Trans World Corp New	TWOC	Hotel/Gaming	0.60	3.00
Central Garden and Pet Co	CENT	Household Products	0.85	4.00
Church and Dwight Co Inc	CHD	Household Products	0.70	4.00
Spectrum Brands Holdings Inc New	SPB	Household Products	0.85	8.50
Orchids Paper Products Company	TIS	Household Products	0.90	6.50
Command Center Inc	CCNI	Human Resources	0.75	96.00
Mastech Digital Inc.	MHH	Human Resources	0.80	6.00
ABM Industries Inc	ABM	Industrial Services	0.80	4.50

ACCEPTED FOR FILING BY THE CLERK OF THE SUPERIOR COURT OF THE STATE OF NORTH CAROLINA IN AND FOR THE COUNTY OF WAKE

Office of Regulatory Staff

CEM-Retrospective

Carolina Water Service, Inc.

Docket No. 2017-292-WS

CH Robinson Worldwide Inc	CHRW	Industrial Services	0.85	3.00
Conrad Industries Inc	CNRD	Industrial Services	0.60	12.00
Edgewater Technology Inc	EDGW	Industrial Services	0.80	13.00
Exponent Inc	EXPO	Industrial Services	0.90	10.00
Genpact Limited	G	Industrial Services	0.75	2.00
Hackett Group Inc	HCKT	Industrial Services	0.80	2.50
Healthcare Services Group Inc	HCSG	Industrial Services	0.90	5.00
Hudson Technologies Inc	HDSN	Industrial Services	0.90	21.00
ICF International Inc	ICFI	Industrial Services	0.90	9.00
Kingstone Companies Inc	KINS	Industrial Services	0.70	11.50
Rollins Inc	ROL	Industrial Services	0.90	12.00
Superior Uniform Group	SGC	Industrial Services	0.75	5.50
Sigmatron International Inc	SGMA	Industrial Services	0.70	2.50
SP Plus Corporation	SP	Industrial Services	0.80	39.00
Syntel Inc	SYNT	Industrial Services	0.85	8.00
WNS Holdings Limited	WNS	Industrial Services	0.90	6.00
Cogint Inc	COGT	Information Services	0.80	16.50
FBL Financial Group Inc	FFG	Insurance (Life)	0.90	6.00
Independence Holding Company	IHC	Insurance (Life)	0.80	8.00
Power Financial	PWF.TO	Insurance (Life)	0.90	10.50
Security National Financial Corp	SNFCA	Insurance (Life)	0.60	26.50
Arch Cap Group Ltd	ACGL	Insurance (Prop/Cas.)	0.70	13.50
American Financial Group	AFG	Insurance (Prop/Cas.)	0.90	10.50
Allstate Corporation	ALL	Insurance (Prop/Cas.)	0.85	7.50
Berkshire Hathaway Inc New (Class B)	BRKB	Insurance (Prop/Cas.)	0.90	6.00
Baldwin and Lyons Inc	BWINA	Insurance (Prop/Cas.)	0.60	2.00
Chubb Ltd.	CB	Insurance (Prop/Cas.)	0.85	9.50
Cincinnati Financial Corp	CINF	Insurance (Prop/Cas.)	0.90	6.50
Global Indemnity PLC	GBLI	Insurance (Prop/Cas.)	0.75	7.50
Hallmark Financial Services Inc	HALL	Insurance (Prop/Cas.)	0.85	4.00
Infinity Property and Casualty Corporation	IPCC	Insurance (Prop/Cas.)	0.70	3.50
Mercury General Corp	MCY	Insurance (Prop/Cas.)	0.80	1.50
Markel Corp	MKL	Insurance (Prop/Cas.)	0.80	13.50
Navigators Group Inc	NAVG	Insurance (Prop/Cas.)	0.80	7.50
Progressive Corp.	PGR	Insurance (Prop/Cas.)	0.90	8.00
ProAssurance Corp	PRA	Insurance (Prop/Cas.)	0.70	3.50
Safety Insurance Group Inc	SAFT	Insurance (Prop/Cas.)	0.85	1.00
The Travelers Companies Inc	TRV	Insurance (Prop/Cas.)	0.85	6.50
WR Berkley Corp	WRB	Insurance (Prop/Cas.)	0.85	8.00
White Moutains Insurance Group Ltd	WTM	Insurance (Prop/Cas.)	0.60	8.50
XL Group Ltd.	XL	Insurance (Prop/Cas.)	0.90	10.50
Blucora Inc	BCOR	Internet	0.85	5.50
CynergisTek Inc	CTEK	Internet	0.55	29.50
MakeMyTrip Limited	MMYT	Internet	0.80	27.50
Sitestar Corp	SYTE	Internet	0.60	4.00

Office of Regulatory Staff

CEM-Retrospective

Carolina Water Service, Inc.

Docket No. 2017-292-WS

Tucows Inc	TCX	Internet	0.90	10.50
XO Group Inc	XOXO	Internet	0.85	1.00
Guardian Cap Group Ltd (Class A)	GCGA.TO	Investment Co.(Foreign)	0.75	9.50
CSG Systems International Inc	CSGS	IT Services	0.90	6.50
Amdocs Ltd	DOX	IT Services	0.80	6.00
Infosys Limited	INFY	IT Services	0.85	9.50
Jack Henry and Associates Inc	JKHY	IT Services	0.85	4.50
Network 1 Technologies Inc	NTIP	IT Services	0.60	18.00
ePlus inc	PLUS	IT Services	0.90	11.50
ATS Automation Tooling Systems	ATA.TO	Machinery	0.80	5.00
CompX International Inc	CIX	Machinery	0.75	7.00
EnviroStar Inc	EVI	Machinery	0.55	5.50
Gencor Industries Inc	GENC	Machinery	0.70	3.50
International Baler Corporation	IBAL	Machinery	0.60	12.00
MSC Industrial Direct Co Inc	MSM	Machinery	0.90	11.50
P F Industries Inc	PFIN	Machinery	0.65	10.00
Sono Tek Corporation	SOTK	Machinery	0.60	10.00
Terra Tech Corporation	TRTC	Machinery	0.80	97.00
WSI Industries Inc	WSCI	Machinery	0.70	5.00
Algoma Central Corp	ALC.TO	Maritime	0.60	2.50
Danaos Corp	DAC	Maritime	0.90	4.00
Baxter International Inc	BAX	Med Supp Invasive	0.85	6.00
Becton Dickinson and Company	BDX	Med Supp Invasive	0.80	13.50
Edwards Lifesciences	EW	Med Supp Invasive	0.85	15.50
Exactech Inc	EXAC	Med Supp Invasive	0.90	7.50
Integra LifeSciences Holdings Corporation	IART	Med Supp Invasive	0.85	4.50
ICU Medical Inc	ICUI	Med Supp Invasive	0.85	12.50
IRIDEX Corporation	IRIX	Med Supp Invasive	0.80	17.00
Intuitive Surgical Inc	ISRG	Med Supp Invasive	0.80	17.50
LeMaitre Vascular Inc	LMAT	Med Supp Invasive	0.60	5.50
Medtronic plc	MDT	Med Supp Invasive	0.90	20.00
Milestone Scientific Inc	MLSS	Med Supp Invasive	0.70	25.50
Nuvasive Inc	NUVA	Med Supp Invasive	0.85	6.50
Repro Med Systems Inc	REPR	Med Supp Invasive	0.80	19.00
Stryker Corp	SYK	Med Supp Invasive	0.90	5.00
Teleflex Inc	TFX	Med Supp Invasive	0.85	1.50
Utah Medical Products Inc	UTMD	Med Supp Invasive	0.85	11.00
Varian Medical System	VAR	Med Supp Invasive	0.90	8.00
Atrion Corporation	ATRI	Med Supp Non-Invasive	0.70	6.00
Bio Rad Laboratories Inc	BIO	Med Supp Non-Invasive	0.85	8.50
Chembio Diagnostics Inc	CEMI	Med Supp Non-Invasive	0.80	14.50
Cogentix Medical, Inc.	CGNT	Med Supp Non-Invasive	0.60	11.50
Cooper Companies Inc	COO	Med Supp Non-Invasive	0.90	7.00
Digirad Corporation	DRAD	Med Supp Non-Invasive	0.85	1.50
Haemonetics Corp	HAE	Med Supp Non-Invasive	0.90	2.50

Office of Regulatory Staff

CEM-Retrospective

Carolina Water Service, Inc.

Docket No. 2017-292-WS

Johnson and Johnson	JNJ	Med Supp Non-Invasive	0.85	5.00
Misonix Inc	MSON	Med Supp Non-Invasive	0.85	6.00
NxStage Medical Inc	NXTM	Med Supp Non-Invasive	0.80	4.00
Omnicell Inc	OMCL	Med Supp Non-Invasive	0.90	7.00
Patterson Companies Inc	PDCO	Med Supp Non-Invasive	0.90	3.50
ResMed Inc	RMD	Med Supp Non-Invasive	0.90	3.50
Sonoma Pharmaceuticals Inc.	SNOA	Med Supp Non-Invasive	0.90	1.50
Meridian Bioscience	VIVO	Med Supp Non-Invasive	0.85	3.00
West Pharmaceutical Services Inc	WST	Med Supp Non-Invasive	0.85	9.00
Almost Family Inc	AFAM	Medical Services	0.75	6.50
Anthem Inc.	ANTM	Medical Services	0.90	8.00
Cigna Corporation	CI	Medical Services	0.85	13.50
Quest Diagnostics Inc	DGX	Medical Services	0.90	7.00
DLH Holdings Corporation	DLHC	Medical Services	0.80	19.50
DaVita Inc.	DVA	Medical Services	0.85	17.00
Ensign Group Inc	ENSG	Medical Services	0.85	7.00
Extendicare Inc	EXE.TO	Medical Services	0.70	64.00
Fresenius Medical ADR	FMS	Medical Services	0.80	12.00
Humana Inc	HUM	Medical Services	0.85	10.50
ICON plc	ICLR	Medical Services	0.80	8.00
Laboratory Corp	LH	Medical Services	0.90	14.00
LHC Group	LHCG	Medical Services	0.80	8.00
Mednax Inc	MD	Medical Services	0.85	11.50
Magellan Health Inc	MGLN	Medical Services	0.90	8.00
Natl HealthCare Corp.	NHC	Medical Services	0.85	7.50
Psychemedics Corp	PMD	Medical Services	0.60	5.00
Providence Service Corp	PRSC	Medical Services	0.90	24.50
Eastern Company	EML	Metal Fabricating	0.55	2.50
Caledonia Mining Corp. PLC.	CAL.TO	Metals & Mining (Div.)	0.55	15.50
Kaiser Aluminum Corporation	KALU	Metals & Mining (Div.)	0.85	1.00
Mountain Province Diamonds Inc	MPVD.TO	Metals & Mining (Div.)	0.65	8.50
Nevsun Resources Ltd	NSU.TO	Metals & Mining (Div.)	0.70	19.50
U S Lime and Minerals	USLM	Metals & Mining (Div.)	0.85	8.50
Daily Journal Corp	DJCO	Newspaper	0.80	14.00
Manhattan Bridge Capital Inc	LOAN	Newspaper	0.65	3.00
Acme United Corp	ACU	Office Equip/Supplies	0.60	9.50
Badger Daylighting Ltd	BAD.TO	Oilfield Svcs/Equip.	0.75	18.00
North American Energy Partners Inc	NOA.TO	Oilfield Svcs/Equip.	0.60	1.50
CCL Industries	CCLB.TO	Packaging & Container	0.70	8.00
Intertape Polymer Group Inc	ITPOF	Packaging & Container	0.85	4.00
Northern Technologies International Corp	NTIC	Packaging & Container	0.65	6.00
Silgan Holdings Inc	SLGN	Packaging & Container	0.90	3.00
UFP Technologies Inc	UFPT	Packaging & Container	0.90	13.00
Winpak Ltd	WPK.TO	Packaging & Container	0.65	9.00
Clearwater Paper	CLW	Paper/Forest Products	0.85	7.50

ACCEPTED FOR FILING BY THE PUBLIC UTILITY COMMISSION OF NORTH CAROLINA ON 08/14/2018 AT 10:29:29 AM BY SP-1/SP-2/SP-3/SP-4/SP-5/SP-6/SP-7/SP-8/SP-9/SP-10/SP-11/SP-12/SP-13/SP-14/SP-15/SP-16/SP-17/SP-18/SP-19/SP-20/SP-21/SP-22/SP-23/SP-24/SP-25/SP-26/SP-27/SP-28/SP-29/SP-30/SP-31/SP-32/SP-33/SP-34/SP-35/SP-36/SP-37/SP-38/SP-39/SP-40/SP-41/SP-42/SP-43/SP-44/SP-45/SP-46/SP-47/SP-48/SP-49/SP-50/SP-51/SP-52/SP-53/SP-54/SP-55/SP-56/SP-57/SP-58/SP-59/SP-60/SP-61/SP-62/SP-63/SP-64/SP-65/SP-66/SP-67/SP-68/SP-69/SP-70/SP-71/SP-72/SP-73/SP-74/SP-75/SP-76/SP-77/SP-78/SP-79/SP-80/SP-81/SP-82/SP-83/SP-84/SP-85/SP-86/SP-87/SP-88/SP-89/SP-90/SP-91/SP-92/SP-93/SP-94/SP-95/SP-96/SP-97/SP-98/SP-99/SP-100

Office of Regulatory Staff

CEM-Retrospective

Carolina Water Service, Inc.

Docket No. 2017-292-WS

Getty Realty Corp	GTY	Petroleum (Integrated)	0.85	4.00
Reserve Petroleum Co	RSRV	Petroleum (Producing)	0.80	5.00
Tengasco Inc	TGC	Petroleum (Producing)	0.75	6.00
CVS Caremark Corporation	CVS	Pharmacy Services	0.85	5.00
IntelGenx Technologies Corporation	IGXT	Pharmacy Services	0.75	5.50
Jean Coutu Group (Class A)	PJCA.TO	Pharmacy Services	0.55	20.00
AmeriGas Partners LP	APU	Pipeline MLPs	0.75	2.50
Spectra Energy Part.	SEP	Pipeline MLPs	0.90	17.50
Emera Inc.	EMA.TO	Power	0.60	12.50
Agnico Eagle Mines Ltd	AEM	Precious Metals	0.55	3.00
Compania De Minas Buenaventura SA	BVN	Precious Metals	0.90	4.00
Franco Nevada Corp	FNV	Precious Metals	0.60	4.50
Mag Silver Corp	MAG	Precious Metals	0.85	4.50
Seabridge Gold Inc	SA	Precious Metals	0.65	2.50
Analogic Corp	ALOG	Precision Instrument	0.80	4.00
Luna Innovations Incorporated	LUNA	Precision Instrument	0.75	24.00
OSI Systems Inc	OSIS	Precision Instrument	0.85	8.50
Research Frontiers Inc	REFR	Precision Instrument	0.85	4.50
Transcat Inc	TRNS	Precision Instrument	0.70	11.50
Waters Corp	WAT	Precision Instrument	0.90	17.50
Wireless Telecom	WTT	Precision Instrument	0.70	6.00
Compass Diversified	CODI	Public/Private Equity	0.70	6.00
Solar Capital Ltd	SLRC	Public/Private Equity	0.80	4.00
Avalonbay Communities Inc	AVB	R.E.I.T.	0.70	12.00
Boston Properties Inc	BXP	R.E.I.T.	0.90	2.50
Digital Realty Trust Inc	DLR	R.E.I.T.	0.80	8.00
Equity Residential	EQR	R.E.I.T.	0.75	10.00
Extra Space Storage	EXR	R.E.I.T.	0.80	9.50
Federal Realty Investment Trust	FRT	R.E.I.T.	0.75	5.50
Welltower Inc.	HCN	R.E.I.T.	0.70	5.00
Macerich Co	MAC	R.E.I.T.	0.85	8.50
Annaly Capital Management Inc	NLY	R.E.I.T.	0.65	6.00
Realty Income Corporation	O	R.E.I.T.	0.70	13.50
Ventas Inc	VTR	R.E.I.T.	0.75	14.00
Amer. Outdoor Brands	AOBC	Recreation	0.90	22.50
Carnival Corp	CCL	Recreation	0.90	1.50
Hasbro Inc	HAS	Recreation	0.90	3.00
Mattel Inc	MAT	Recreation	0.85	1.00
Sturm Ruger and Co	RGR	Recreation	0.90	14.50
Argo Group Int'l	AGII	Reinsurance	0.90	8.00
Aspen Insurance Holdings Limited	AHL	Reinsurance	0.90	4.50
Axis Capital Holdings Ltd	AXS	Reinsurance	0.80	7.00
EMC Insurance Group Inc	EMCI	Reinsurance	0.85	6.50
Everest Re Group Ltd	RE	Reinsurance	0.80	10.50
Renaissancere Holdings Ltd	RNR	Reinsurance	0.70	11.50

Office of Regulatory Staff**CEM-Retrospective****Carolina Water Service, Inc.****Docket No. 2017-292-WS**

Validus Holdings	VR	Reinsurance	0.80	5.50
Biglari Holdings Inc	BH	Restaurant	0.85	3.50
BJs Restaurants Inc	BJRI	Restaurant	0.90	3.50
Cheesecake Factory Inc	CAKE	Restaurant	0.75	4.50
Cracker Barrel Old Country Store Inc	CBRL	Restaurant	0.75	20.50
Chipotle Mexican Grill Inc	CMG	Restaurant	0.85	17.50
DineEquity Inc	DIN	Restaurant	0.80	33.50
Darden Restaurants Inc	DRI	Restaurant	0.85	5.00
Noble Romans Inc	NROM	Restaurant	0.70	5.50
RCI Hospitality Holdings Inc	RICK	Restaurant	0.80	8.00
Rocky Mountain Chocolate Factory Inc	RMCF	Restaurant	0.65	3.00
Texas Roadhouse Inc	TXRH	Restaurant	0.85	7.50
Luxottica Group Spa	LUXTY	Retail (Hardlines)	0.90	6.00
PCM Inc	PCMI	Retail (Hardlines)	0.70	3.50
Tandy Leather Factory Inc	TLF	Retail (Hardlines)	0.65	10.50
Ulta Beauty	ULTA	Retail (Hardlines)	0.90	26.00
Citi Trends Inc	CTRN	Retail (Softlines)	0.80	1.50
Foot Locker Inc	FL	Retail (Softlines)	0.90	7.50
Francescas Holdings Corporation	FRAN	Retail (Softlines)	0.75	49.50
Childrens Place Inc	PLCE	Retail (Softlines)	0.85	5.50
TJX Companies Inc	TJX	Retail (Softlines)	0.90	11.00
Monro Inc.	MNRO	Retail Automotive	0.90	12.50
Alexanders Inc	ALX	Retail Store	0.80	1.00
Costco Wholesale Corporation	COST	Retail Store	0.80	1.00
Canadian Tire 'A'	CTCA.TO	Retail Store	0.70	6.00
Dollar General Corporation	DG	Retail Store	0.85	10.00
Dollar Tree Inc	DLTR	Retail Store	0.85	24.00
PriceSmart	PSMT	Retail Store	0.90	1.00
Walmart Inc.	WMT	Retail Store	0.70	5.00
Ali. Couche-Tard	ATDB.TO	Retail/Wholesale Food	0.80	24.50
Caseys General Stores Inc	CASY	Retail/Wholesale Food	0.75	5.50
Core Mark Holding Co Inc	CORE	Retail/Wholesale Food	0.75	6.00
Empire Company Limited (Class A)	EMPA.TO	Retail/Wholesale Food	0.60	9.00
Ingles Markets Incorporated	IMKTA	Retail/Wholesale Food	0.85	3.50
Kroger Co	KR	Retail/Wholesale Food	0.90	11.50
Loblaw Cos. Ltd.	L.TO	Retail/Wholesale Food	0.65	6.50
Metro Inc	MRU.TO	Retail/Wholesale Food	0.60	7.00
Village Super Market Inc	VLGEA	Retail/Wholesale Food	0.75	3.50
Weis Markets	WMK	Retail/Wholesale Food	0.90	4.00
George Weston Ltd	WN.TO	Retail/Wholesale Food	0.65	5.00
Alpha and Omega Semiconductor Limited	AOSL	Semiconductor	0.80	1.50
AXT Inc	AXTI	Semiconductor	0.70	2.50
Cirrus Logic Inc	CRUS	Semiconductor	0.85	21.00
Photronics Inc	PLAB	Semiconductor Equip	0.65	5.00
Rocky Brands Inc	RCKY	Shoe	0.90	4.50

Office of Regulatory Staff**CEM-Retrospective****Carolina Water Service, Inc.***Docket No. 2017-292-WS*

Friedman Industries Inc	FRD	Steel	0.65	0.50
ADTRAN Inc	ADTN	Telecom. Equipment	0.85	2.00
ClearOne Inc	CLRO	Telecom. Equipment	0.65	18.50
Frequency Electronics Inc	FEIM	Telecom. Equipment	0.70	4.00
Preformed Line Products Company	PLPC	Telecom. Equipment	0.85	3.50
Radcom Ltd	RDCM	Telecom. Equipment	0.90	8.50
TESSCO Technologies Inc	TESS	Telecom. Equipment	0.85	4.50
ATN International	ATNI	Telecom. Services	0.75	18.50
China Mobile Limited	CHL	Telecom. Services	0.80	7.00
Hawaiian Telecom	HCOM	Telecom. Services	0.80	15.50
Internet Initiative Japan Inc	IJJI	Telecom. Services	0.75	22.50
KT Corp	KT	Telecom. Services	0.75	13.00
AT&T	T	Telecom. Services	0.75	1.00
Telus Corp	T.TO	Telecom. Services	0.60	1.50
Torotel Inc	TTLO	Telecom. Services	0.80	13.50
Vonage Holdings Corp	VG	Telecom. Services	0.80	80.50
New Ulm Telecom Inc	NULM	Telecom. Utility	0.55	2.50
Berkshire Hills Bancorp Inc	BHLB	Thrift	0.85	2.50
Brookline Bancorp Inc	BRKL	Thrift	0.90	2.50
Capitol Federal Financial Inc	CFFN	Thrift	0.75	1.00
Charter Financial Corp	CHFN	Thrift	0.70	14.00
Clifton Bancorp Inc	CSBK	Thrift	0.60	14.00
Dime Community Bancshares Inc	DCOM	Thrift	0.90	7.50
Meridian Bancorp Inc	EBSB	Thrift	0.65	3.00
ESSA Bancorp Inc	ESSA	Thrift	0.55	3.50
First Defiance Financial Corp	FDEF	Thrift	0.80	5.00
Home Bancorp Inc	HBCP	Thrift	0.60	7.00
HMN Financial Inc	HMNF	Thrift	0.60	6.50
Investors Bancorp Inc	ISBC	Thrift	0.90	21.50
Kearny Financial	KRNY	Thrift	0.80	19.50
NASB Financial Inc	NASB	Thrift	0.65	6.00
Northwest Indiana Bancorp	NWIN	Thrift	0.55	7.00
New York Community Bancorp Inc	NYCB	Thrift	0.90	0.50
OceanFirst Financial Corp	OCFC	Thrift	0.75	7.00
Provident Financial Services Inc	PFS	Thrift	0.90	3.50
Provident Financial Holdings Inc	PROV	Thrift	0.60	6.00
Southern Missouri Bancorp Inc	SMBC	Thrift	0.60	9.50
TFS Financial Corporation	TFSL	Thrift	0.85	0.50
Timberland Bancorp Inc	TSBK	Thrift	0.60	5.50
United Community Bancorp	UCBA	Thrift	0.55	18.00
Waterstone Financial Inc	WSBF	Thrift	0.70	20.00
Schweitzer Mauduit International Inc	SWM	Tobacco	0.75	2.50
Universal Corp	UVV	Tobacco	0.90	6.50
Estee Lauder Companies Inc	EL	Toiletries/Cosmetics	0.80	11.00

Office of Regulatory Staff
CEM-Retrospective
Carolina Water Service, Inc.
Docket No. 2017-292-WS

United Guardian Inc	UG	Toiletries/Cosmetics	0.55	0.50	
Heartland Express Inc	HTLD	Trucking	0.90	6.50	
Landstar System Inc	LSTR	Trucking	0.90	15.50	
Crown Castle International Corporation	CCI	Wireless Networking	0.85	17.50	
ORBCOMM Inc	ORBC	Wireless Networking	0.85	2.50	
Spok Holdings Inc	SPOK	Wireless Networking	0.90	10.50	
Ubiquiti Networks Inc	UBNT	Wireless Networking	0.90	33.00	
				Average/Mean	9.58
				Median	7.00
				Average of Mean & Median	8.29
				Average, if $\beta < 0.75$	9.53
				Average, if $\beta \geq 0.75$	9.61
				Average of stratified growth rates	9.57
				$\beta \leq 0.75$, weighted by 44%*	4.19
				$\beta > 0.75$, weighted by 56%*	5.38
				Weighted stratified average	9.58
				Average of simple, stratified & weighted averages	9.15

*See Revised Exhibit DHC-13

ACCEPTED FOR FILING BY THE PUBLIC SERVICE COMMISSION ON 12/29/17 AT 10:54 AM

Office of Regulatory Staff
CEM-Prospective
Carolina Water Service, Inc.
Docket No. 2017-292-WS

Company Name	Ticker	Beta	Industry	Book Value Proj 3 To 5 Year Growth Rate
ABM Industries Inc	ABM	0.80	Industrial Services	3.50
Barrick Gold Corporation	ABX	0.80	Precious Metals	7.50
Arch Cap Group Ltd	ACGL	0.70	Insurance (Prop/Cas.)	10.00
Analogic Corp	ALOG	0.80	Precision Instrument	2.00
AmeriGas Partners LP	APU	0.75	Pipeline MLPs	3.00
Ali. Couche-Tard	ATDB.TO	0.80	Retail/Wholesale Food	13.50
ATN International	ATNI	0.75	Telecom. Services	4.50
Axis Capital Holdings Ltd	AXS	0.80	Reinsurance	5.00
BCE Inc	BCE	0.75	Telecom. Utility	8.00
Becton Dickinson and Company	BDX	0.80	Med Supp Invasive	20.00
Bank of Montreal	BMO.TO	0.80	Bank	9.50
CAE Inc	CAE.TO	0.75	Aerospace/Defense	7.00
Conagra Brands	CAG	0.70	Food Processing	7.00
Cheesecake Factory Inc	CAKE	0.75	Restaurant	7.00
Caseys General Stores Inc	CASY	0.75	Retail/Wholesale Food	8.50
Cracker Barrel Old Country Store Inc	CBRL	0.75	Restaurant	7.50
Capitol Federal Financial Inc	CFFN	0.75	Thrift	2.50
Church and Dwight Co Inc	CHD	0.70	Household Products	8.00
Chemed Corporation	CHE	0.80	Diversified Co.	14.00
Check Point Software Technologies Inc	CHKP	0.80	E-Commerce	9.00
Clorox Co	CLX	0.65	Household Products	33.00
Canadian Imperial Bank of Commerce	CM.TO	0.80	Bank	10.50
CME Group Inc	CME	0.75	Brokers & Exchanges	3.00
Compass Diversified	CODI	0.70	Public/Private Equity	6.50
Coca Cola Bottling Company	COKE	0.80	Beverage	20.00
Core Mark Holding Co Inc	CORE	0.75	Retail/Wholesale Food	9.50
Costco Wholesale Corporation	COST	0.80	Retail Store	10.00
Campbell Soup Co	CPB	0.75	Food Processing	19.50
Canadian Tire 'A'	CTCA.TO	0.70	Retail Store	5.00
Citi Trends Inc	CTRN	0.80	Retail (Softlines)	5.00
DineEquity Inc	DIN	0.80	Restaurant	1.50
Amdocs Ltd	DOX	0.80	IT Services	5.50
Dr Pepper Snapple Group Inc	DPS	0.75	Beverage	9.00
DSP Group Inc	DSPG	0.80	Wireless Networking	2.00
Estee Lauder Companies Inc	EL	0.80	Toiletries/Cosmetics	3.50
Erie Indemnity Company	ERIE	0.80	Insurance (Prop/Cas.)	8.50
Elbit Systems Ltd	ESLT	0.80	Aerospace/Defense	11.00
Fresh Del Monte Produce Inc	FDP	0.80	Food Processing	9.50
National Beverage	FIZZ	0.80	Beverage	11.00
Fresenius Medical ADR	FMS	0.80	Medical Services	10.50
Forrester Research Inc	FORR	0.70	Information Services	6.50
Franciscas Holdings Corporation	FRAN	0.75	Retail (Softlines)	7.50
Genpact Limited	G	0.75	Industrial Services	17.50
Goldcorp Inc	GG	0.75	Precious Metals	1.00
General Mills Inc	GIS	0.75	Food Processing	7.00
Globus Medical Inc	GMED	0.80	Med Supp Invasive	14.00

ACCEPTED FOR FILING BY THE COMMISSIONER OF PUBLIC UTILITIES AND CONSUMER SERVICES ON 05/07/2018 AT 10:12 AM. THE ABOVE INFORMATION IS UNOFFICIAL AND NOT FOR RELIANCE.

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CEM-Prospective
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Hawaiian Telcom	HCOM	0.80 Telecom. Services	1.50
Hormel Foods Corporation	HRL	0.75 Food Processing	10.00
Hershey Company	HSY	0.75 Food Processing	18.00
Intercontinental Exch.	ICE	0.80 Brokers & Exchanges	8.00
ICON plc	ICLR	0.80 Medical Services	19.50
Intuitive Surgical Inc	ISRG	0.80 Med Supp Invasive	13.00
J and J Snack Foods Corp	JJSF	0.80 Food Processing	8.00
Kellogg Company	K	0.70 Food Processing	13.00
Konami Corporation	KNMCY	0.80 Foreign Electronics	7.00
Loblaw Cos. Ltd.	L.TO	0.65 Retail/Wholesale Food	5.50
Eli Lilly and Co	LLY	0.75 Drug	9.50
Lockheed Martin Corp	LMT	0.80 Aerospace/Defense	6.00
Logitech International SA	LOGI	0.80 Computers/Peripherals	13.00
Mercury General Corp	MCY	0.80 Insurance (Prop/Cas.)	3.00
MGP Ingredients	MGPI	0.80 Beverage	14.00
McCormick and Co	MKC	0.80 Food Processing	14.00
Markel Corp	MKL	0.80 Insurance (Prop/Cas.)	3.50
Monster Beverage Corporation	MNST	0.80 Beverage	19.50
Altria Group Inc	MO	0.65 Tobacco	15.00
Vail Resorts	MTN	0.80 Hotel/Gaming	20.00
Myriad Genetics Inc	MYGN	0.80 Biotechnology	9.50
Northland Power Inc	NPL.TO	0.70 Power	14.00
Northwest Bancshares Inc	NWBI	0.80 Thrift	2.50
Phibro Animal Health	PAHC	0.75 Food Processing	19.00
Par Pacific Holdings	PARR	0.80 Petroleum (Integrated)	7.50
PepsiCo Inc	PEP	0.80 Beverage	6.00
Pinnacle Foods Inc	PF	0.80 Food Processing	3.00
Procter and Gamble Co	PG	0.65 Household Products	5.00
Photronics Inc	PLAB	0.65 Semiconductor Equip	4.00
Everest Re Group Ltd	RE	0.80 Reinsurance	7.00
Renaissancere Holdings Ltd	RNR	0.70 Reinsurance	5.00
Republic Services Inc	RSG	0.75 Environmental	6.50
Raytheon Co	RTN	0.80 Aerospace/Defense	6.50
Royal Bank of Canada	RY.TO	0.80 Bank	8.50
Sanderson Farms Inc	SAFM	0.75 Food Processing	15.50
Saputo Inc.	SAP.TO	0.65 Food Processing	9.00
JM Smucker Company	SJM	0.75 Food Processing	5.50
Shaw Communications Inc (Class B)	SJRB.TO	0.65 Cable TV	3.00
SNC-Lavalin Group	SNC.TO	0.80 Engineering & Const	4.50
Stantec Inc.	STN.TO	0.80 Engineering & Const	11.00
StoneMor Partners LP	STON	0.75 Funeral Services	16.00
Constellation Brands	STZ	0.75 Beverage	10.00
Schweitzer Mauduit International Inc	SWM	0.75 Tobacco	9.50
AT&T	T	0.75 Telecom. Services	6.50
Toronto Dominion Bank	TD.TO	0.75 Bank	10.00
Treehouse Foods Inc	THS	0.75 Food Processing	6.00
Terra Nitrogen	TNH	0.80 Chemical (Basic)	6.50
Thomson Reuters Corp	TRI.TO	0.75 Information Services	7.00
Tyson Foods	TSN	0.80 Food Processing	9.50

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Vonage Holdings Corp	VG	0.80 Telecom. Services	13.00
Village Super Market Inc	VLGEA	0.75 Retail/Wholesale Food	5.00
Validus Holdings	VR	0.80 Reinsurance	5.50
Verizon Communications Inc	VZ	0.80 Telecom. Services	6.00
WestJet Airlines Ltd	WJA.TO	0.80 Air Transport	7.50
Waste Management	WM	0.75 Environmental	4.50
Walmart Inc.	WMT	0.70 Retail Store	4.00
George Weston Ltd	WN.TO	0.65 Retail/Wholesale Food	8.00
		Average/Mean	8.86
		Median	7.50
		Average of Mean & Median	8.18
		Average, if $\beta < 0.75$	8.84
		Average, if $\beta \geq 0.75$	8.88
		Average of stratified growth rates	8.86
		$\beta \leq 0.75$, weighted by 44%*	3.89
		$\beta > 0.75$, weighted by 56%*	<u>4.97</u>
		Weighted stratified average	<u>8.86</u>
		Average of simple, stratified & weighted averages	8.63
		Retrospective Book growth	9.15
		Prospective Book growth	<u>8.63</u>
		Indicated CEM Cost of Equity	<u>8.89</u>

ACCEPTED FOR EARLY PROCEEDINGS STATUS - MATHEMATICAL APPROXIMATION: CPMSC OBSERVED 2017-12-29 2:04 PM VSP aqk 08/08/17 67

OFFICE OF REGULATORY STAFF

U.S. Census Quarterly Financial Report and Calculations Based upon It

Carolina Water Service, Inc.

Docket No. 2017-292-WS



U.S. Census Bureau
 Source: Quarterly Financial Report
 All Manufacturing: U.S. Total
 Not Seasonally Adjusted Total Assets [Millions of Dollars]
 Period: 2002 to 2017
 Data Extracted on: August 4, 2017 (3:30 pm)

Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2002	4,733,073	4,767,543	4,780,278	4,823,219
2003	4,905,287	5,021,709	5,033,355	5,162,852
2004	5,280,255	5,371,716	5,451,203	5,538,113
2005	5,590,232	5,657,787	5,800,190	5,828,716
2006	5,998,529	6,116,322	6,205,970	6,179,142
2007	6,297,423	6,520,599	6,689,008	6,891,131
2008	7,075,200	7,152,498	7,081,610	6,819,681
2009	6,733,755	6,783,626	6,827,720	6,942,972
2010	7,082,521	7,189,592	7,346,330	7,432,384
2011	7,593,783	7,754,262	7,812,542	7,907,376
2012	8,098,156	8,165,826	8,317,436	8,331,651
2013	8,458,261	8,605,267	8,733,733	8,838,478
2014	8,921,595	9,031,403	9,103,699	9,088,807
2015	9,236,651	9,443,403	9,585,409	9,632,509
2016	9,763,918	9,958,829	10,103,978	10,213,936
2017	10,334,714	NA	NA	NA

A C E E F F O N I E A R L P R R O Q E E S S A N O B - M A I K H A U G U S 2 0 1 7 : 0 5 P M S C S O B S E R I 2 0 1 7 - 1 2 9 2 9 0 S V S P a g e 1 o f 6 7

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U.S. Census Quarterly Financial Report and Calculations Based upon It

Carolina Water Service, Inc.

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U.S. Census Bureau
 Source: Quarterly Financial Report
 All Manufacturing: U.S. Total
 Not Seasonally Adjusted Total Liabilities [Millions of Dollars]
 Period: 2002 to 2017
 Data Extracted on: February 20, 2018 (1:16 pm)

Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2002	2,936,601	2,948,215	2,950,295	3,052,936
2003	3,062,972	3,083,952	3,077,270	3,090,094
2004	3,167,214	3,194,583	3,230,278	3,223,895
2005	3,238,902	3,268,717	3,362,435	3,365,083
2006	3,392,411	3,441,958	3,467,135	3,484,075
2007	3,522,047	3,620,521	3,729,365	3,838,938
2008	3,988,920	4,069,796	4,021,906	4,126,764
2009	4,135,332	4,135,752	3,957,093	3,935,594
2010	4,039,019	4,072,140	4,127,076	4,106,492
2011	4,152,554	4,203,106	4,269,796	4,427,111
2012	4,517,909	4,566,588	4,640,912	4,697,347
2013	4,743,587	4,831,184	4,885,360	4,836,900
2014	4,907,989	4,972,584	5,020,058	5,153,122
2015	5,270,266	5,427,572	5,547,612	5,625,845
2016	5,712,751	5,883,012	5,966,004	6,114,987
2017	6,156,789	6,222,641	6,326,520	

EXHIBIT DHC-12 REVISED EXHIBIT DHC-12
 Page 2 of 4
 UNITED STATES CENSUS BUREAU
 ALL MANUFACTURING: U.S. TOTAL
 NOT SEASONALLY ADJUSTED TOTAL LIABILITIES [MILLIONS OF DOLLARS]
 PERIOD: 2002 TO 2017
 DATA EXTRACTED ON: FEBRUARY 20, 2018 (1:16 PM)

OFFICE OF REGULATORY STAFF
U.S. Census Quarterly Financial Report and Calculations Based upon It
Carolina Water Service, Inc.
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Change in Net Equity, Based upon Preceding Tables
(deep yellow=decline; light yellow=below previous high)

Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2002	1,796,472	1,819,328	1,829,983	1,770,283
2003	1,842,315	1,937,757	1,956,085	2,072,758
2004	2,113,041	2,177,133	2,220,925	2,314,218
2005	2,351,330	2,389,070	2,437,755	2,463,633
2006	2,606,118	2,674,364	2,738,835	2,695,067
2007	2,775,376	2,900,078	2,959,643	3,052,193
2008	3,086,280	3,082,702	3,059,704	2,692,917
2009	2,598,423	2,647,874	2,870,627	3,007,378
2010	3,043,502	3,117,452	3,219,254	3,325,892
2011	3,441,229	3,551,156	3,542,746	3,480,265
2012	3,580,247	3,599,238	3,676,524	3,634,304
2013	3,714,674	3,774,083	3,848,373	4,001,578
2014	4,013,606	4,058,819	4,083,641	3,935,685
2015	3,966,385	4,015,831	4,037,797	4,006,664
2016	4,051,167	4,075,817	4,137,974	4,098,949
2017	4,177,925			

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Carolina Water Service, Inc.
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% Change in Net Equity, Based upon Preceding Table

(quarter over same quarter previous year)

Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2003	2.55%	6.51%	6.89%	17.09%
2004	14.69%	12.35%	13.54%	11.65%
2005	11.28%	9.73%	9.76%	6.46%
2006	10.84%	11.94%	12.35%	9.39%
2007	6.49%	8.44%	8.06%	13.25%
2008	11.20%	6.30%	3.38%	-11.77%
2009	-15.81%	-14.11%	-6.18%	11.68%
2010	17.13%	17.73%	12.14%	10.59%
2011	13.07%	13.91%	10.05%	4.64%
2012	4.04%	1.35%	3.78%	4.43%
2013	3.75%	4.86%	4.67%	10.11%
2014	8.05%	7.54%	6.11%	-1.65%
2015	-1.18%	-1.06%	-1.12%	1.80%
2016	2.14%	1.49%	2.48%	2.30%
2017	3.13%			

Office of Regulatory Staff

CAP-M

Carolina Water Service, Inc.

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<u>Company</u>	<u>β^*</u>	<u>Source</u>
American States	0.80	Revised Exhibit DHC-3, p.1
American Water	0.65	Revised Exhibit DHC-3, p.2
Aqua America	0.75	Revised Exhibit DHC-3, p.3
Artesian Resources	0.65	Revised Exhibit DHC-3, p.5
California Water	0.80	Revised Exhibit DHC-3, p.6
Connecticut Water	0.65	Revised Exhibit DHC-3, p.7
Global Water Resources	N/A	Revised Exhibit DHC-3, p.8
Middlesex Water	0.80	Revised Exhibit DHC-3, p.9
SJW	0.70	Revised Exhibit DHC-3, p.10
York Water	<u>0.80</u>	Revised Exhibit DHC-3, p.11
	<i>median</i>	
	<u><u>0.75</u></u>	

*Proportion of companies by β : 56% ≥ 0.75 ; 44% < 0.75

Office of Regulatory Staff

CAP-M

Carolina Water Service, Inc.
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Exhibit 7-6 [further SBBI excerpt: returns; added calculations shown in boxes]

Decile	Geometric Mean	Arithmetic Mean	Geometric Mean Weightings by Number of Companies
1-largest	9.30%	11.10%	0.55%
2	10.60%	12.80%	0.66%
3	11.00%	13.60%	0.69%
4	10.80%	13.80%	0.74%
5	11.50%	14.60%	0.81%
6	11.40%	14.80%	0.92%
7	11.60%	15.40%	1.02%
8	11.60%	16.10%	1.30%
9	11.60%	17.00%	1.75%
10-smallest	13.30%	20.30%	3.26%
	Average 11.27%		Weighted Average 11.70%

Average	11.27%	14.95%	11.70%
ERP*	7.57%	11.25%	8.00%
Risk-adjust ERP [†]	5.68%	8.44%	6.00%
CAP-M cost of Equity [‡]	9.38%	12.14%	9.70%

$$(9.38 + 9.70)/2 = 9.54$$

*Based on R_f at Revised Exhibit DHC-2; R_m - R_f

[†]Based on median β, p.1 of this exhibit; ERP * β

[‡]R_f + Risk-Adjusted ERP; result rounded

